

AX161456 Sequence
AX161779 Sequence
AX165423 Sequence
AX165620 Sequence
AX184387 Sequence
AX187247 Sequence
AX187247 Sequence
129551 Sequence 42
191225 Sequence 42
AF043876 Homo sapi
U92140 Mus musculus
M22792 Human MHC c
M22799 Human MHC c
AX008534 Sequence
BD001931 S-Hydroxy
AR040530 Sequence
AF305509 Homo sapi
AX184535 Sequence
AX187402 Sequence
S57604 T-cell-1-ecce
M17097 Poliovirus
AR059299 Sequence
AR174579 Sequence
AX280181 Sequence
AX174578 Sequence
AX280180 Sequence
AF366504 Homo sapi
AF0792 Sequence 10
X55228 M.musculus
L39475 Homo sapien
I21489 Sequence 36
I21491 Sequence 38
I21492 Sequence 39
G38355 G638 Mice
AF165256 Gorilla g
K03375 Pous sarcom
AR165773 Sequence
L79924 Homo sapien
L79924 Homo sapien
L79925 Homo sapien
L79921 Homo sapien
L79922 Homo sapien
AF357335 Mus muscu
S79984 TCR V beta
I34325 Sequence 24
I81815 Sequence 44
I88179 Sequence 36
AX337726 Sequence
Z18248 Hypotrichom
I13473 Sequence 7
S64372 TCR V alpha
G66545 sy2630 YAC

ALIGNMENTS

RESULT 1
LOCUS AX053077 20 bp DNA
DEFINITION Sequence 1 from Patent WO0071703
ACCESSION AX053077
VERSION AX053077.1 GI:12227134
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
Methylenegene, Inc. (CA)
location/Qualifiers
1..20

/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"
BASE COUNT
7 a 4 c 7 g 2 t
ORIGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gaacgtgagggactcagca 20
|||||
Db 1 GAACGTGAGGGACTCAGCA 20

RESULT 2
LOCUS AX053086 20 bp DNA
DEFINITION Sequence 10 from Patent WO0071703.
ACCESSION AX053086
VERSION AX053086.1 GI:12227143
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
Methylenegene, Inc. (CA)
location/Qualifiers
1..20

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gaacgtgagggactcagca 20
|||||
Db 1 GAACGTGAGGGACTCAGCA 20

RESULT 3
LOCUS S47737 87 bp RNA linear MAM 08-MAY-1993
DEFINITION Bots-MHC class I antigen (D19.3, exons 6-7-8) [Bos taurus-cattle,
Friesian Holstein, Theileria annulata-transformed cell line,
Pre-mRNA Partial, 87 nt].
ACCESSION S47737
VERSION S47737.1 GI:258997
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
REMARK

cow Friesian Holstein Theileria annulata-transformed cell line.
Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
1 (bases 1 to 87)
Ellis, S.A., Braem, K.A. and Morrison, W.I.
Transmembrane and cytoplasmic domain sequences demonstrate at least
two expressed bovine MHC class I loci
Immunogenetics 37 (1), 49-56 (1992)
93052564
GenBank staff at the National Library of Medicine created this
entry [NCBI g1bbseq 117326] from the original journal article.

IDS Ref.

B2 4/4/02

MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/748,697A

FILING DATE: 13-NOVEMBER-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/442,062

FILING DATE: 16-MAY-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/964,624

FILING DATE: 21-OCTOBER-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/714,131

FILING DATE: 10-JUNE-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/536,428

FILING DATE: 11-JUNE-1990

ATTORNEY/AGENT INFORMATION:

NAME: Barry J. Swanson

REGISTRATION NUMBER: 33,215

REFERENCE/DOCKET NUMBER: NEX05/DC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (303) 793-3333

TELEFAX: (303) 793-3433

INFORMATION FOR SEQ ID NO: 55:

SEQUENCE CHARACTERISTICS:

LENGTH: 85 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-748-697A-55

Query Match 63.0%; Score 12.6; DB 1; Length 85;

Best Local Similarity 68.4%; Pred. No. 5.7e+02;

Matches 13; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 aaacgtgaggaactcagca 20

DB 39 ACACGUAGUGACUCUGCA 57

RESULT 9

US-09-165-616-55

Sequence 55, Application US/09165616

Patent No. 6344318

GENERAL INFORMATION:

APPLICANT: GOLD, LARRY

TITLE OF INVENTION: METHODS OF PRODUCING NUCLEIC A

NUMBER OF SEQUENCES: 83

CORRESPONDENCE ADDRESS:

ADDRESSEE: Swanson & Bratschun, L.L.C.

STREET: 8400 E. Prentice Avenue, Suite 200

CITY: Englewood

STATE: Colorado

COUNTRY: USA

ZIP: 80111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 8.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/165,616

FILING DATE: 16-MAY-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/964,624

FILING DATE: 21-OCTOBER-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/714,131

FILING DATE: 10-JUNE-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/536,428

FILING DATE: 11-JUNE-1990

ATTORNEY/AGENT INFORMATION:

NAME: Barry J. Swanson

REGISTRATION NUMBER: 33,215

REFERENCE/DOCKET NUMBER: NEX05/DC-CON

TELECOMMUNICATION INFORMATION:

TELEPHONE: (303) 793-3333

TELEFAX: (303) 793-3433

INFORMATION FOR SEQ ID NO: 55:

SEQUENCE CHARACTERISTICS:

LENGTH: 85 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-165-616-55

Query Match 63.0%; Score 12.6; DB 4; Length 85;

Best Local Similarity 68.4%; Pred. No. 5.7e+02;

Matches 13; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 aaacgtgaggaactcagca 20

DB 39 ACACGUAGUGACUCUGCA 57

RESULT 10

US-08-712-241-19

Sequence 19, Application US/08712241

Patent No. 5789564

GENERAL INFORMATION:

APPLICANT: SEIDAH, NABIL G.

TITLE OF INVENTION: DEVELOPMENT OF RESEARCH,

TITLE OF INVENTION: DIAGNOSTIC AND PRODUCTION TOOLS FOR PRO-HORMONE

NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:

ADDRESSEE: OUALLES & BRADY

STREET: 411 EAST WISCONSIN AVENUE

CITY: MILWAUKEE

STATE: WISCONSIN

COUNTRY: U.S.A.

ZIP: 53202-4497

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 720 kb diskette

COMPUTER: IBM PS/2, Model 30

OPERATING SYSTEM: PC-DOS 3.30

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

1026/103
over
classno 1,14
46

Aug 4, 1998


```

; NAME/KEY: misc_feature
; LOCATION: 8..10
;

```


| | | | | | | |
|------|------|------|-----|----|----------|--------------------|
| 959 | 10.4 | 52.0 | 96 | 22 | AA105849 | Probe #5840 used t |
| 960 | 10.4 | 52.0 | 100 | 17 | AA130880 | Primer 10 for 95 k |
| 961 | 10.4 | 52.0 | 100 | 19 | AAV68438 | PCR primer mut30-5 |
| 962 | 10.4 | 52.0 | 100 | 22 | AAH72028 | Human cervical can |
| 963 | 10.2 | 51.0 | 15 | 19 | AAV11208 | Peptide nucleic ac |
| 964 | 10.2 | 51.0 | 15 | 19 | AAV11207 | Peptide nucleic ac |
| 965 | 10.2 | 51.0 | 15 | 20 | AAZ28135 | Human wild-type EA |
| 966 | 10.2 | 51.0 | 17 | 18 | AAZ94934 | Primer 2 for seque |
| 967 | 10.2 | 51.0 | 17 | 19 | AAV95312 | Human c-fos target |
| 968 | 10.2 | 51.0 | 17 | 19 | AAV43870 | HLA exon 2 locus s |
| 969 | 10.2 | 51.0 | 17 | 20 | AAV90926 | Human C-raf target |
| 970 | 10.2 | 51.0 | 17 | 21 | AAA90568 | HLA class I gene s |
| 971 | 10.2 | 51.0 | 17 | 22 | ABA02627 | HBV DNAzyme target |
| 972 | 10.2 | 51.0 | 17 | 22 | AAH95315 | Human Chk1 ribozym |
| 973 | 10.2 | 51.0 | 17 | 22 | AAH95893 | Human Chk1 ribozym |
| 974 | 10.2 | 51.0 | 17 | 23 | ABK03511 | Human CD20 Zlnzyme |
| 975 | 10.2 | 51.0 | 18 | 20 | AAK52637 | Human genome biall |
| 976 | 10.2 | 51.0 | 18 | 20 | AAK38254 | Histocompatibility |
| 977 | 10.2 | 51.0 | 18 | 21 | AAZ70837 | Human biallelic ma |
| 978 | 10.2 | 51.0 | 18 | 21 | AAZ72653 | Human biallelic ma |
| 979 | 10.2 | 51.0 | 18 | 21 | AAK92812 | Antisense oligonuc |
| 980 | 10.2 | 51.0 | 18 | 22 | AAE84574 | Probe and primer f |
| 981 | 10.2 | 51.0 | 19 | 18 | AAZ77159 | Batten disease gen |
| 982 | 10.2 | 51.0 | 19 | 21 | AAZ71168 | Single nucleotide |
| 983 | 10.2 | 51.0 | 19 | 21 | AAZ71171 | Single nucleotide |
| 984 | 10.2 | 51.0 | 19 | 21 | AAZ71198 | Single nucleotide |
| 985 | 10.2 | 51.0 | 19 | 21 | AAZ71201 | Single nucleotide |
| 986 | 10.2 | 51.0 | 19 | 21 | AAZ71219 | Single nucleotide |
| 987 | 10.2 | 51.0 | 19 | 21 | AAZ71249 | Single nucleotide |
| 988 | 10.2 | 51.0 | 19 | 21 | AAZ71255 | Single nucleotide |
| 989 | 10.2 | 51.0 | 19 | 21 | AAZ71261 | Single nucleotide |
| 990 | 10.2 | 51.0 | 19 | 21 | AAH84558 | Cyclin E ribozyme |
| 991 | 10.2 | 51.0 | 19 | 21 | AAH84818 | Cyclin F ribozyme |
| 992 | 10.2 | 51.0 | 19 | 21 | AAH85201 | Cyclin G1 ribozyme |
| 993 | 10.2 | 51.0 | 19 | 22 | AAH59720 | Cyclin E ribozyme |
| 994 | 10.2 | 51.0 | 19 | 22 | AAH59980 | Cyclin F ribozyme |
| 995 | 10.2 | 51.0 | 19 | 22 | AAH60363 | Cyclin G1 ribozyme |
| 996 | 10.2 | 51.0 | 19 | 22 | AAH60363 | Cyclin G1 ribozyme |
| 997 | 10.2 | 51.0 | 19 | 22 | AAH60363 | Primer #1 to ampli |
| 998 | 10.2 | 51.0 | 20 | 16 | AAZ70158 | Human TNFRSF1B ge |
| 999 | 10.2 | 51.0 | 20 | 16 | AAZ70158 | Polyvirus group ca |
| 1000 | 10.2 | 51.0 | 20 | 17 | AAZ72510 | Primer for calpain |
| | | | | 17 | AAZ16967 | Human/murine chima |

ALIGNMENTS

RESULT 1
ID AAA55801 standard; DNA: 20 BP.

Interview 2 Pro's

DE 01-SEP-2000 (first entry)
XX Human histone deacetylase HD1 antisense oligonucleotide SEQ ID NO:44.
XX Human histone deacetylase HD1 antisense oligonucleotide; HDAC1 ASI.
XX Human; DNA methyltransferase; DNA Metase; antisense oligonucleotide;
XX modulation; inhibition; gene expression; combination therapy; p16;
XX histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
XX methylation; gene therapy; tumour; cytostatic; antiproliferative;
XX antiinflammatory; inflammation; asthma; ss.

IDS Ref. B3

4/4/02

PA (METH-) METHYLENE INC.

XX Besterman JM, Macleod AR, Siders WM;

XX WPI; 2000-339532/29.

PT Inhibiting gene expression e.g. DNA methyltransferase, by treating
PT cells with a synergistic amount of antisense oligonucleotide and
PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
PT therapy of e.g. tumors

XX Disclosure; Page 29; 99pp; English.

CC The present invention describes a method for inhibiting the expression
CC of a gene in a cell comprising contacting the cell with an effective
CC synergistic amount of an antisense oligonucleotide which inhibits
CC expression of the gene, and an effective synergistic amount of a protein
CC effector of a product of the gene. Also described are: (1) a method for
CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a
CC gene comprising an antisense oligonucleotide which inhibits expression of
CC the gene in operable association with a protein effector of a gene
CC product; and (4) a pharmaceutical composition comprising the inhibitor of
CC (3). The methods and compositions are useful as analytical tools for
CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
CC for human diseases including benign and malignant tumours, inflammation
CC or asthma. The methods, inhibitors and compositions of the invention
CC that inhibit expression or activity of a gene or gene product may be
CC used to treat patients having, or predisposed to developing, a disease
CC responsive to inhibition of the gene. These may also be used to activate
CC silenced genes to provide missing gene functions and improve a given
CC condition. Furthermore, the methods and compositions are useful as
CC probes of the physiological function of a gene product in an experimental
CC cell culture or animal system; and to evaluate the effect of inhibiting
CC oligonucleotide sequences which are used in the exemplification of the
CC present invention.

XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gaaacgtgagagactcaagca 20
Db 1 gaaacgtgagagactcaagca 20

RESULT 2
ID AAD20115 standard; DNA: 20 BP.

DE 03-JUN-2002 (first entry)
XX Human histone deacetylase antisense oligonucleotide; HDAC1 ASI.
XX Human; cytosolic; vascotropic; fungicide; histone deacetylase; inhibitor;
XX HDAC; therapy; cell proliferative disease; cancer; restenosis; psoriasis;
XX protozoal disease; fungal disease; infection; ss.

OS Homo sapiens.

XX WO200170675-A2.

XX 27-SEP-2001.

XX 26-MAR-2001; 2601WO-IB00683.

XX 24-MAR-2000; 2000US-192151P.

date not good

IDS Ref. B4

4/4/02

9-00
9-00

Fri Jul 19 08:31:18 2002

us-09-817-538-17.rmg

XX (METH-) METHYLENE INC.
XX PA
XX Delorme D, Woo SH, Valsburg A;
XX WPI; 2001-639108/73.

XX An inhibitor of histone deacetylase for the treatment of cell
XX proliferation diseases and conditions such as cancer, restenosis or
XX psoriasis or preventing protozoal or fungal disease or infections -
XX Disclosure: Page 54; 241pp; English.

XX The present invention relates to compounds and methods for inhibiting
XX histone deacetylase (HDAC) enzymatic activity. Compounds of the
XX invention are used for the treatment of cell proliferative diseases
XX and conditions such as cancer, restenosis or psoriasis. They are
XX also used for treating or preventing protozoal or fungal disease
XX or infections. The present invention is an antisense oligonucleotide,
XX HDAC1 AS1, which is targeted to the 3' untranslated region (UTR)
XX of human HDAC1 to inhibit its enzymatic activity.

XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39; 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gaacgtgagggactcagca 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 gaacgtgagggactcagca 20

RESULT 3
AAH43111
ID AAH43111 standard; DNA; 20 BP.

XX AAH43111;
XX DT 19-SEP-2001 (first entry)
XX DB Antisense oligo, target HDAC-1 1585-1604.
XX KW Antisense: histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
XX cell proliferation; cancer; restenosis; psoriasis; protozoal infection;
XX fungal infections; ss.
XX OS Synthetic.

XX WPI; 2001-639108/73.
XX 31-MAY-2001.
XX 22-NOV-2000; 2000WO-1B01881.
XX 23-NOV-1999; 99US-0167035.

XX (METH-) METHYLENE INC.
XX Delorme D, Ruel R, Lavole R, Thibault G, Abou-Khalil E;
XX WPI; 2001-432601/46.

XX New inhibitors of histone deacetylase e.g.
XX N-hydroxy-5-(4-(benzenesulfonyl)amino)-phenyl)-4-yl-2-pentanamide for
XX treating cancer, restenosis or fungal infections -
XX Disclosure: Page 40; 147pp; English.

XX The sequences given in AAH43102-14 are oligonucleotides which are
XX antisense to the histone deacetylase gene, HDAC-1. These
XX oligonucleotides may be used in combination with an inhibitor of

CC histone deacetylase enzyme function, to given an improved inhibitory
CC effect, thereby reducing the amount of inhibitor required to obtain a
CC given inhibitory effect. Compounds containing these oligonucleotides
CC may be used to treat cell proliferation conditions such as cancer,
CC restenosis or psoriasis. They can also be used to treat protozoal
CC and fungal infections.

XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39; 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gaacgtgagggactcagca 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 gaacgtgagggactcagca 20

RESULT 4
AAC89531
ID AAC89531 standard; DNA; 20 BP.

XX AAC89531
XX DT 08-MAR-2001 (first entry)
XX DB Human HDAC-1 PCR primer SEQ ID NO: 1

XX KW Histone deacetylase; HDAC-1; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
XX HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
XX gene therapy; PCR primer; ss.
XX OS Homo sapiens.

XX WPI; 2001-016407/02.
XX 30-NOV-2000.
XX 03-MAY-2000; 2000WO-1B01252.
XX 03-MAY-1999; 99US-0132287.

XX (METH-) METHYLENE INC.
XX MacLeod AR, Li Z, Besterman JM;
XX WPI; 2001-016407/02.

XX Antisense oligonucleotide that inhibits expression of a histone
XX deacetylase, useful for treating and/or alleviating the symptoms of
XX neoplasia, or for inhibiting neoplastic cell growth in an animal -
XX Example 2; Page 12; 125pp; English.

XX The present invention provides inhibitors of histone deacetylase enzymes
XX such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
XX inhibitors may be antisense strands or they may be compounds identified
XX by contacting the enzyme with the compound and measuring the resulting
XX enzyme activity. These inhibitors are useful for treating cancers and for
XX identifying which histone deacetylase is involved in a neoplasia.

XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39; 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gaacgtgagggactcagca 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 gaacgtgagggactcagca 20

IDS Ref.
B2
4/4/02

Interfering b/cn. Proximal
2 Filing date

ITS Reference B3 form

date not

XX (METH-) METHYLENE INC.
XX Delorme D, Woo SH, Valsburg A;
XX WPI; 2001-639108/73.

XX An inhibitor of histone deacetylase for the treatment of cell
XX proliferation diseases and conditions such as cancer, restenosis or
XX psoriasis or preventing protozoal or fungal disease or infections -
XX Disclosure; Page 54; 241pp; English.

XX The present invention relates to compounds and methods for inhibiting
XX histone deacetylase (HDAC) enzymatic activity. Compounds of the
XX invention are used for the treatment of cell proliferative diseases
XX and conditions such as cancer, restenosis or psoriasis. They are
XX also used for treating or preventing protozoal or fungal disease
XX or infections. The present sequence is antisense oligonucleotide,
XX HDAC1 AS2 which is targeted to the 3' untranslated region (UTR)
XX of human HDAC1 to inhibit its enzymatic activity.

XX Sequence 20 BP; 6 A; 3 C; 10 G; 1 T; 0 other;

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 ggaagccagagctgagagag 20
DB 1 ggaagccagagctgagagag 20

RESULT 3
AAH43110
ID AAH43110 standard; DNA; 20 BP.

AAH43110;

DT 19-SEP-2001 (first entry)

DE Antisense oligo, target HDAC-1 1565-1584.

KW Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
KM cell proliferation; Cancer; restenosis; psoriasis; protozoal infection;
KW fungal infections; ss.

OS Synthetic.

PN WO200138322-A1.

PD 11-MAY-2001.

PF 22-NOV-2000; 2000MO-1B01881.

PR 23-NOV-1999; 9905-0167035.

PA (METH-) METHYLENE INC.

PI Delorme D, Ruel R, Lavoie R, Thibault C, Abou-Khalil E;

DR WPI; 2001-432601/46.

XX New inhibitors of histone deacetylase 4,9.

XX N-hydroxy-5-(4-(benzenesulfamylamino)-phenyl)-4-yn-2-pentanamide for
XX treating cancer, restenosis or fungal infections -

PS Disclosure; Page 40; 147pp; English.

XX The sequences given in AAH43102-14 are oligonucleotides which are
XX antisense to the histone deacetylase gene, HDAC-1. These
XX oligonucleotides may be used in combination with an inhibitor of

CC histone deacetylase enzyme function, to given an improved inhibitory
CC effect, thereby reducing the amount of inhibitor required to obtain a
CC given inhibitory effect. Compounds containing these oligonucleotides
CC may be used to treat cell proliferation conditions such as cancer,
CC restenosis or psoriasis. They can also be used to treat protozoal
CC and fungal infections.

XX Sequence 20 BP; 6 A; 3 C; 10 G; 1 T; 0 other;

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 ggaagccagagctgagagag 20
DB 1 ggaagccagagctgagagag 20

RESULT 4

ABA69845
ID ABA69845 standard; DNA; 81 BP.

ABA69845;

DT 01-FEB-2002 (first entry)

DE Human foetal liver single exon nucleic acid probe #18150.

KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS Homo sapiens.

PN WO200157277-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001MO-US00669.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPI; 2001-483447/52.

XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human foetal liver -

XX Claim 4; SEQ ID NO 18150; 639pp + sequence listing; English.

XX The invention relates to a single exon nucleic acid probe for
XX measuring human gene expression in a sample derived from human foetal
XX liver. The single exon nucleic acid probes may be used for predicting,
XX measuring and displaying gene expression in samples derived from human
XX foetal liver. The present sequence is a single exon nucleic acid
XX probe of the invention.

XX Note: The sequence data for this patent did not form part of the
XX printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 81 BP; 19 A; 17 C; 28 G; 17 T; 0 other;

Query Match 79.0%; Score 15.8; DB 22; Length 81;
Best Local Similarity 89.5%; Pred. No. 6.4e+02;

APPLICANT: RAMPY, MARK A.
APPLICANT: MENDRICK, DONNA
APPLICANT: ZHANG, JUN
APPLICANT: NI, JIAN
APPLICANT: MOORE, PAUL A.
APPLICANT: COLEMAN, TIMOTHY A.
APPLICANT: GRUBER, JOACHIM R.
APPLICANT: DILLON, PATRICK J.
APPLICANT: GENTZ, REINER L.
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVE, NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,082A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/01790
FILING DATE: 14-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/461,195
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/023,852
FILING DATE: 13-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/039,045
FILING DATE: 28-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/862,432
FILING DATE: 23-MAY-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/055,561
FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488, 0360008/EKS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-09-023-082A-49

Query Match
Best Local Similarity 72.0%; Score 14.4; DB 3; Length 48;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 gaagccagagctggag 17
|||||
DB 12 GAAGCTAGAGCTGGAG 27

RESULT 4
US-09-387-699-17/C
Sequence 17, Application US/09387699
Patent No. 6221660
GENERAL INFORMATION:
APPLICANT: Bonini, James A.
APPLICANT: Borowsky, Beth E.
APPLICANT: Adham, Nika
APPLICANT: Boyle, No. 62216601
TITLE OF INVENTION: DNA Encoding SNORF25 Receptor
FILE REFERENCE: 56095-A
CURRENT APPLICATION NUMBER: US/09/387,699
CURRENT FILING DATE: 1999-08-13
EARLIER APPLICATION NUMBER: 09/255,376
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.0 - beta
SEQ ID NO 17
LENGTH: 61
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: primer/probe
US-09-387-699-17

Query Match
Best Local Similarity 71.0%; Score 14.2; DB 4; Length 61;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 gaagccagagctggag 20
|||||
DB 48 GAAGCCAGAGCTGGAG 30

RESULT 5
US-08-309-560-22/C
Sequence 22, Application US/08309560
Patent No. 5569386
GENERAL INFORMATION:
APPLICANT: Pelletier, Dale A.
APPLICANT: Weisburg, William G.
TITLE OF INVENTION: Nucleic Acid Probes for the Detection of
TITLE OF INVENTION: Bacteria of the Genus Legionella and Methods for the
TITLE OF INVENTION: Detection of the Etiological Agents of Legionnaires'
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amoco Corporation
STREET: 55 Shuman Blvd., Suite 600
CITY: Naperville
STATE: IL
COUNTRY: USA
ZIP: 60563
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/309,560
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/066,373
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gieser, Joanne M.
REGISTRATION NUMBER: 32,838
REFERENCE/DOCKET NUMBER: 31,495
TELECOMMUNICATION INFORMATION:
TELEPHONE: (708) 717-2443

17

TELEFAX: (708) 717-2430
 INFORMATION FOR SEQ ID NO: 22:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-309-560-22

102/102
 claims 14/16

Query Match 70.0%; Score 14; DB 1; Length 32;
 Best Local Similarity 100.0%; Pred. No. 4.3e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 7 cagagctgagag 20
 |||||
 Db 14 CAGAGCTGAGAGC 1

14 bases

RESULT 6
 PCT-US94-05821A-22/c
 Sequence 22, Application PC/TUS9405821A
 GENERAL INFORMATION:
 APPLICANT: AMOCO CORPORATION
 TITLE OF INVENTION: Nucleic Acid Probes for the Detection of
 TITLE OF INVENTION: Bacteria of the Genus Legionella and Methods for the
 TITLE OF INVENTION: Detection of the Etiological Agents of Legionnaires'
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Amoco Corporation
 STREET: 55 Shuman Blvd., Suite 600
 CITY: Naperville
 STATE: IL
 COUNTRY: USA
 ZIP: 60563
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US94/05821A
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Norval B. Galloway
 REGISTRATION NUMBER: 33,595
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (708) 717-2447
 TELEFAX: (708) 717-2430
 INFORMATION FOR SEQ ID NO: 22:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 PCT-US94-05821A-22

Query Match 70.0%; Score 14; DB 5; Length 32;
 Best Local Similarity 100.0%; Pred. No. 4.3e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 7 cagagctgagag 20
 |||||
 Db 14 CAGAGCTGAGAGC 1

RESULT 7
 US-08-292-620A-2144
 Sequence 2144, Application US/08292620A
 Patent No. 5837542
 GENERAL INFORMATION:
 APPLICANT: Susan Grimm
 APPLICANT: Dan T. Stinchcomb
 APPLICANT: James McGswigen
 APPLICANT: Sean Sullivan
 APPLICANT: Kenneth G. Draper
 TITLE OF INVENTION: RIBOZYME TREATMENT OF
 TITLE OF INVENTION: DISEASES OR CONDITIONS
 TITLE OF INVENTION: RELATED TO LEVELS OF
 TITLE OF INVENTION: INTRACELLULAR ADHESION
 NUMBER OF SEQUENCES: 2390
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 MEDIUM TYPE: storage
 OPERATING SYSTEM: IBM P.C. DOS 5.0
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/292,620A
 FILING DATE: August 17, 1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 PRIOR APPLICATION DATA: Including application
 PRIOR APPLICATION DATA: described below:
 APPLICATION NUMBER: 08/008,895
 FILING DATE: January 19, 1993
 APPLICATION NUMBER: 07/969,849
 FILING DATE: December 7, 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 32,327
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEEX: 67-3510
 INFORMATION FOR SEQ ID NO: 2144:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-292-620A-2144

two

Query Match 69.0%; Score 13.8; DB 2; Length 38;
 Best Local Similarity 82.4%; Pred. No. 5.4e+02;
 Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 OY 4 agccagagctgagag 20
 |||||
 Db 1 AGCCAGAGCTGAGAGC 17

RESULT 8
 US-09-071-845-2144
 Sequence 2144, Application US/09071845
 Patent No. 6132967
 GENERAL INFORMATION:

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 00:24:04 ; Search time 1922.39 Seconds
(Without alignments)
217.714 Million cell updates/sec

Title: US-09-817-538-17

Perfect score: 20

Sequence: 1 gaacgtgagcagca 20

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 843946

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sy:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_un:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_inv:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|----|----|-------------|
|------------|-------|-------|-------|--------|----|----|-------------|

| | | | | | | | |
|----|----|-------|------|-------|----|--------------|--------------------|
| 1 | 20 | 100.0 | 20 | 100.0 | 20 | AX053077 | AX053077 Sequence |
| 2 | 3 | 13.6 | 20 | 100.0 | 20 | AX053086 | AX053086 Sequence |
| 3 | 4 | 13.4 | 67.0 | 67.0 | 87 | S47737 | S47737 BclA-MHC cl |
| 4 | 5 | 13.4 | 67.0 | 67.0 | 20 | AX207002 | AX207002 Sequence |
| 5 | 6 | 13.2 | 66.0 | 66.0 | 24 | AX066399 | AX066399 Sequence |
| 6 | 7 | 13.2 | 66.0 | 66.0 | 51 | AX162033 | AX162033 Sequence |
| 7 | 8 | 13.2 | 66.0 | 66.0 | 91 | 12 SYNPHSIA | M10912 Plasmid pHS |
| 8 | 9 | 12.8 | 64.0 | 64.0 | 95 | 12 SYNPHSIB | M19080 Plasmid pHS |
| 9 | 10 | 12.6 | 63.0 | 63.0 | 51 | AX159596 | AX159596 Sequence |
| 10 | 11 | 12.6 | 63.0 | 63.0 | 22 | AX066918 | AX066918 Sequence |
| 11 | 12 | 12.6 | 63.0 | 63.0 | 24 | AX288386 | AX288386 Sequence |
| 12 | 13 | 12.6 | 63.0 | 63.0 | 24 | AX290339 | AX290339 Sequence |
| 13 | 14 | 12.6 | 63.0 | 63.0 | 34 | AX141272 | AX141272 Sequence |
| 14 | 15 | 12.6 | 63.0 | 63.0 | 34 | AX141273 | AX141273 Sequence |
| 15 | 16 | 12.6 | 63.0 | 63.0 | 49 | A62200 | A62200 Sequence |
| 16 | 17 | 12.6 | 63.0 | 63.0 | 49 | AX022424 | AX022424 Sequence |
| 17 | 18 | 12.6 | 63.0 | 63.0 | 51 | AX161157 | AX161157 Sequence |
| 18 | 19 | 12.6 | 63.0 | 63.0 | 51 | E04012 | E04012 Synthetic D |
| 19 | 20 | 12.6 | 63.0 | 63.0 | 73 | AX233516 | AX233516 Sequence |
| 20 | 21 | 12.6 | 63.0 | 63.0 | 83 | AX233518 | AX233518 Sequence |
| 21 | 22 | 12.6 | 63.0 | 63.0 | 85 | AR045054 | AR045054 Sequence |
| 22 | 23 | 12.6 | 63.0 | 63.0 | 85 | 118586 | 118586 Sequence |
| 23 | 24 | 12.6 | 63.0 | 63.0 | 85 | 134130 | 134130 Sequence |
| 24 | 25 | 12.4 | 62.0 | 62.0 | 29 | AR021329 | AR021329 Sequence |
| 25 | 26 | 12.4 | 62.0 | 62.0 | 37 | AR021328 | AR021328 Sequence |
| 26 | 27 | 12.4 | 62.0 | 62.0 | 47 | AX194663 | AX194663 Sequence |
| 27 | 28 | 12.4 | 62.0 | 62.0 | 51 | AX158127 | AX158127 Sequence |
| 28 | 29 | 12.2 | 61.0 | 61.0 | 24 | HS278036 | HS278036 Sequence |
| 29 | 30 | 12.2 | 61.0 | 61.0 | 28 | E12572 | E12572 Primer, 6/1 |
| 30 | 31 | 12.2 | 61.0 | 61.0 | 28 | A40453 | A40453 Sequence |
| 31 | 32 | 12.2 | 61.0 | 61.0 | 33 | AR027326 | AR027326 Sequence |
| 32 | 33 | 12.2 | 61.0 | 61.0 | 40 | HS278036 | HS278036 Sequence |
| 33 | 34 | 12.2 | 61.0 | 61.0 | 51 | AR040772 | AR040772 Sequence |
| 34 | 35 | 12.2 | 61.0 | 61.0 | 70 | AX233517 | AX233517 Sequence |
| 35 | 36 | 12.2 | 61.0 | 61.0 | 73 | AX233517 | AX233517 Sequence |
| 36 | 37 | 12.2 | 61.0 | 61.0 | 75 | SOBPRMI | SOBPRMI |
| 37 | 38 | 12.2 | 61.0 | 61.0 | 82 | 11 HSPB13D02 | 11 HSPB13D02 |
| 38 | 39 | 12.2 | 60.0 | 60.0 | 95 | SPO224037 | SPO224037 Sequence |
| 39 | 40 | 12.2 | 60.0 | 60.0 | 26 | AX224561 | AX224561 Sequence |
| 40 | 41 | 12.2 | 60.0 | 60.0 | 27 | AX224588 | AX224588 Sequence |
| 41 | 42 | 12.2 | 60.0 | 60.0 | 32 | AR079993 | AR079993 Sequence |
| 42 | 43 | 12.2 | 60.0 | 60.0 | 32 | AR085919 | AR085919 Sequence |
| 43 | 44 | 12.2 | 60.0 | 60.0 | 32 | AR093305 | AR093305 Sequence |
| 44 | 45 | 12.2 | 60.0 | 60.0 | 32 | AR121685 | AR121685 Sequence |
| 45 | 46 | 12.2 | 60.0 | 60.0 | 32 | BD008516 | BD008516 Compounds |
| 46 | 47 | 12.2 | 60.0 | 60.0 | 32 | E40639 | E40639 Antihuman F |
| 47 | 48 | 12.2 | 60.0 | 60.0 | 38 | AR008144 | AR008144 Sequence |
| 48 | 49 | 12.2 | 60.0 | 60.0 | 38 | AX235870 | AX235870 Sequence |
| 49 | 50 | 12.2 | 60.0 | 60.0 | 38 | 150131 | 150131 Sequence |
| 50 | 51 | 12.2 | 60.0 | 60.0 | 51 | AX158927 | AX158927 Sequence |
| 51 | 52 | 12.2 | 60.0 | 60.0 | 51 | AX161386 | AX161386 Sequence |
| 52 | 53 | 12.2 | 60.0 | 60.0 | 54 | AX134108 | AX134108 Sequence |
| 53 | 54 | 12.2 | 60.0 | 60.0 | 60 | AR009406 | AR009406 Sequence |
| 54 | 55 | 12.2 | 60.0 | 60.0 | 63 | AX175594 | AX175594 Sequence |
| 55 | 56 | 12.2 | 60.0 | 60.0 | 63 | HUMTCVD1AD | 132376 Human (clon |
| 56 | 57 | 12.2 | 60.0 | 60.0 | 68 | AF446134 | AF446134 Homo sapi |
| 57 | 58 | 12.2 | 60.0 | 60.0 | 70 | 150120 | 150120 Sequence |
| 58 | 59 | 12.2 | 60.0 | 60.0 | 70 | 150124 | 150124 Sequence |
| 59 | 60 | 12.2 | 60.0 | 60.0 | 81 | A58389 | A58389 Sequence |
| 60 | 61 | 12.2 | 60.0 | 60.0 | 86 | AR126068 | AR126068 Sequence |
| 61 | 62 | 12.2 | 60.0 | 60.0 | 97 | HUMSPEC43 | M61816 Human alpha |
| 62 | 63 | 11.8 | 59.0 | 59.0 | 17 | 137534 | 137534 Sequence |
| 63 | 64 | 11.8 | 59.0 | 59.0 | 17 | 194384 | 194384 Sequence |
| 64 | 65 | 11.8 | 59.0 | 59.0 | 18 | AB068012 | AB068012 Synthetic |
| 65 | 66 | 11.8 | 59.0 | 59.0 | 20 | E40653 | E40653 Antihuman F |
| 66 | 67 | 11.8 | 59.0 | 59.0 | 25 | E09697 | E09697 Probe for d |
| 67 | 68 | 11.8 | 59.0 | 59.0 | 26 | AX025202 | AX025202 Sequence |
| 68 | 69 | 11.8 | 59.0 | 59.0 | 32 | AX288158 | AX288158 Sequence |
| 69 | 70 | 11.8 | 59.0 | 59.0 | 32 | AX288183 | AX288183 Sequence |
| 70 | 71 | 11.8 | 59.0 | 59.0 | 32 | AX288192 | AX288192 Sequence |
| 71 | 72 | 11.8 | 59.0 | 59.0 | 32 | AX288204 | AX288204 Sequence |
| 72 | 73 | 11.8 | 59.0 | 59.0 | 33 | A49028 | A49028 Sequence |
| 73 | 74 | 11.8 | 59.0 | 59.0 | 36 | AR027937 | AR027937 Sequence |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|----------|--------------------|-------|------|------|-----|----|------------|---------------------|
| C 74 | 11.8 | 59.0 | 36 | 6 | AR071296 | Sequence | 147 | 11.4 | 57.0 | 70 | 6 | 113472 | 113472 Sequence 6 |
| C 75 | 11.8 | 59.0 | 36 | 6 | AR108729 | Sequence | C 148 | 11.4 | 57.0 | 71 | 9 | HS1LTC3V7 | AF106260 Homo sapi |
| C 76 | 11.8 | 59.0 | 36 | 6 | AX280231 | Sequence | C 149 | 11.4 | 57.0 | 71 | 9 | HS1LTC4V7 | AF106262 Homo sapi |
| C 77 | 11.8 | 59.0 | 36 | 6 | I59510 | Sequence 17 | C 150 | 11.4 | 57.0 | 71 | 9 | ILR1C2V7 | AF106268 Homo sapi |
| C 78 | 11.8 | 59.0 | 41 | 6 | E27647 | Recombinant | C 151 | 11.4 | 57.0 | 71 | 9 | ILR1C7 | AF106282 Homo sapi |
| C 79 | 11.8 | 59.0 | 51 | 6 | AX204481 | Sequence | C 152 | 11.4 | 57.0 | 72 | 9 | AR277836 | AF277836 Homo sapi |
| C 80 | 11.8 | 59.0 | 52 | 6 | AR084982 | Sequence | C 153 | 11.4 | 57.0 | 72 | 9 | AR277837 | AF277837 Homo sapi |
| C 81 | 11.8 | 59.0 | 52 | 6 | I32907 | Sequence 16 | C 154 | 11.4 | 57.0 | 72 | 9 | AR277838 | AF277838 Homo sapi |
| C 82 | 11.8 | 59.0 | 63 | 9 | HUMBCRC | Homo sapien | C 155 | 11.4 | 57.0 | 72 | 9 | AR277839 | AF277839 Homo sapi |
| C 83 | 11.8 | 59.0 | 81 | 14 | AF109767 | Hepatitits | C 156 | 11.4 | 57.0 | 94 | 9 | AF274810 | AF274810 Homo sapi |
| C 84 | 11.8 | 59.0 | 81 | 14 | AF110015 | Hepatitits | C 157 | 11.4 | 57.0 | 98 | 9 | AF274806 | AF274806 Homo sapi |
| C 85 | 11.8 | 59.0 | 81 | 14 | AF110016 | Hepatitits | C 158 | 11.4 | 57.0 | 98 | 9 | AF274823 | AF274823 Homo sapi |
| C 86 | 11.8 | 59.0 | 98 | 1 | CGPROMF1 | X90356 C.glutamicu | C 159 | 11.4 | 57.0 | 100 | 9 | AF274808 | AF274808 Homo sapi |
| C 87 | 11.6 | 58.0 | 19 | 6 | AR048547 | Sequence | C 160 | 11.4 | 57.0 | 100 | 9 | AF274814 | AF274814 Homo sapi |
| C 88 | 11.6 | 58.0 | 19 | 6 | AR075936 | Sequence | C 161 | 11.4 | 57.0 | 100 | 9 | AF274816 | AF274816 Homo sapi |
| C 89 | 11.6 | 58.0 | 19 | 6 | AR099842 | Sequence | C 162 | 11.4 | 57.0 | 100 | 9 | AF274821 | AF274821 Homo sapi |
| C 90 | 11.6 | 58.0 | 19 | 6 | AR099844 | Sequence | C 163 | 11.2 | 56.0 | 17 | 6 | AX217471 | AX217471 Homo sapi |
| C 91 | 11.6 | 58.0 | 19 | 6 | AR107994 | Sequence | C 164 | 11.2 | 56.0 | 20 | 6 | AX294972 | AX294972 Sequence |
| C 92 | 11.6 | 58.0 | 19 | 6 | AR112360 | Sequence | C 165 | 11.2 | 56.0 | 21 | 6 | AR75767 | AR75767 Sequence 36 |
| C 93 | 11.6 | 58.0 | 19 | 6 | AR163675 | Sequence | C 166 | 11.2 | 56.0 | 21 | 6 | AR085103 | AR085103 Sequence |
| C 94 | 11.6 | 58.0 | 20 | 6 | AX099844 | Sequence | C 167 | 11.2 | 56.0 | 21 | 6 | AX141261 | AX141261 Sequence |
| C 95 | 11.6 | 58.0 | 22 | 6 | AX058985 | Sequence | C 168 | 11.2 | 56.0 | 24 | 6 | AR149761 | AR149761 Sequence |
| C 96 | 11.6 | 58.0 | 24 | 6 | A94628 | Sequence 11 | C 169 | 11.2 | 56.0 | 25 | 6 | A75776 | A75776 Sequence 45 |
| C 97 | 11.6 | 58.0 | 24 | 6 | AX017666 | Sequence | C 170 | 11.2 | 56.0 | 25 | 6 | AR085112 | AR085112 Sequence |
| C 98 | 11.6 | 58.0 | 24 | 6 | AX300851 | Sequence | C 171 | 11.2 | 56.0 | 25 | 6 | E31891 | E31891 Method for |
| C 99 | 11.6 | 58.0 | 24 | 6 | AX304835 | Sequence | C 172 | 11.2 | 56.0 | 31 | 6 | I05972 | I05972 Sequence 16 |
| C 100 | 11.6 | 58.0 | 25 | 6 | AX39893 | Sequence 5 | C 173 | 11.2 | 56.0 | 34 | 6 | A57803 | A57803 Sequence 43 |
| C 101 | 11.6 | 58.0 | 27 | 6 | AX278450 | Sequence | C 174 | 11.2 | 56.0 | 35 | 6 | AX33772 | AX33772 Synthetic (|
| C 102 | 11.6 | 58.0 | 28 | 6 | AX351788 | Sequence | C 175 | 11.2 | 56.0 | 35 | 6 | A94084 | A94084 Sequence 65 |
| C 103 | 11.6 | 58.0 | 29 | 6 | I72319 | Sequence 28 | C 176 | 11.2 | 56.0 | 35 | 6 | AR026104 | AR026104 Sequence |
| C 104 | 11.6 | 58.0 | 29 | 6 | I79577 | Sequence 12 | C 177 | 11.2 | 56.0 | 35 | 6 | AR040738 | AR040738 Sequence |
| C 105 | 11.6 | 58.0 | 30 | 6 | I04377 | Sequence 22 | C 178 | 11.2 | 56.0 | 35 | 6 | AX011169 | AX011169 Sequence |
| C 106 | 11.6 | 58.0 | 33 | 6 | AX280516 | Sequence | C 179 | 11.2 | 56.0 | 36 | 6 | AR036377 | AR036377 Sequence |
| C 107 | 11.6 | 58.0 | 34 | 6 | A39897 | Sequence 9 | C 180 | 11.2 | 56.0 | 36 | 6 | AR093111 | AR093111 Sequence |
| C 108 | 11.6 | 58.0 | 34 | 6 | AX137509 | Sequence | C 181 | 11.2 | 56.0 | 36 | 6 | AX063395 | AX063395 Sequence |
| C 109 | 11.6 | 58.0 | 34 | 6 | E51174 | Method for | C 182 | 11.2 | 56.0 | 36 | 6 | BD009935 | BD009935 BH3 inter |
| C 110 | 11.6 | 58.0 | 34 | 6 | E51192 | Process for | C 183 | 11.2 | 56.0 | 36 | 6 | I72125 | I72125 Sequence 40 |
| C 111 | 11.6 | 58.0 | 35 | 6 | I12348 | Sequence 37 | C 184 | 11.2 | 56.0 | 39 | 6 | A43053 | A43053 Sequence 6 |
| C 112 | 11.6 | 58.0 | 35 | 6 | I70251 | Sequence 37 | C 185 | 11.2 | 56.0 | 39 | 6 | AR047854 | AR047854 Sequence |
| C 113 | 11.6 | 58.0 | 38 | 6 | AR136898 | Sequence | C 186 | 11.2 | 56.0 | 39 | 6 | AR148784 | AR148784 Sequence |
| C 114 | 11.6 | 58.0 | 39 | 6 | A39895 | Sequence 7 | C 187 | 11.2 | 56.0 | 39 | 6 | I16861 | I16861 Sequence 6 |
| C 115 | 11.6 | 58.0 | 39 | 6 | AX036329 | Sequence | C 188 | 11.2 | 56.0 | 41 | 6 | A03773 | A03773 Synthetic (|
| C 116 | 11.6 | 58.0 | 40 | 6 | A67488 | Sequence 23 | C 189 | 11.2 | 56.0 | 41 | 6 | A74298 | A74298 Sequence 10 |
| C 117 | 11.6 | 58.0 | 40 | 6 | A67489 | Sequence 24 | C 190 | 11.2 | 56.0 | 41 | 6 | AR038839 | AR038839 Sequence |
| C 118 | 11.6 | 58.0 | 50 | 6 | E06610 | Probe DNA. | C 191 | 11.2 | 56.0 | 44 | 6 | AX004561 | AX004561 Sequence |
| C 119 | 11.6 | 58.0 | 51 | 6 | AX117657 | Sequence | C 192 | 11.2 | 56.0 | 44 | 6 | AX004581 | AX004581 Sequence |
| C 120 | 11.6 | 58.0 | 51 | 6 | AX162034 | Sequence | C 193 | 11.2 | 56.0 | 44 | 6 | AX036652 | AX036652 Sequence |
| C 121 | 11.6 | 58.0 | 51 | 6 | I21278 | Sequence 42 | C 194 | 11.2 | 56.0 | 44 | 6 | AX233407 | AX233407 Sequence |
| C 122 | 11.6 | 58.0 | 52 | 6 | AR014576 | Sequence | C 195 | 11.2 | 56.0 | 50 | 9 | HUMTCVD1CR | L32441 Human (clon |
| C 123 | 11.6 | 58.0 | 55 | 6 | A49985 | Sequence 2 | C 196 | 11.2 | 56.0 | 51 | 6 | AX159595 | AX159595 Sequence |
| C 124 | 11.6 | 58.0 | 60 | 6 | A45792 | Sequence 30 | C 197 | 11.2 | 56.0 | 51 | 6 | AX161412 | AX161412 Sequence |
| C 125 | 11.6 | 58.0 | 60 | 9 | S57442 | T-cell-rece | C 198 | 11.2 | 56.0 | 51 | 6 | AX161439 | AX161439 Sequence |
| C 126 | 11.6 | 58.0 | 63 | 9 | HSU91085 | Sequence | C 199 | 11.2 | 56.0 | 51 | 6 | AX161440 | AX161440 Sequence |
| C 127 | 11.6 | 58.0 | 65 | 6 | AR050185 | Sequence | C 200 | 11.2 | 56.0 | 51 | 6 | AX204231 | AX204231 Sequence |
| C 128 | 11.6 | 58.0 | 65 | 6 | AR060313 | Sequence | C 201 | 11.2 | 56.0 | 53 | 6 | AX183571 | AX183571 Sequence |
| C 129 | 11.6 | 58.0 | 65 | 6 | I19456 | Sequence 13 | C 202 | 11.2 | 56.0 | 53 | 6 | I31069 | I31069 Sequence 9 |
| C 130 | 11.6 | 58.0 | 65 | 6 | I22410 | Sequence 13 | C 203 | 11.2 | 56.0 | 53 | 6 | I31072 | I31072 Sequence 12 |
| C 131 | 11.6 | 58.0 | 82 | 10 | RATLECA1 | Sequence | C 204 | 11.2 | 56.0 | 60 | 6 | A21146 | A21146 Nucleotide |
| C 132 | 11.6 | 58.0 | 95 | 6 | AX044422 | Sequence | C 205 | 11.2 | 56.0 | 60 | 6 | A21147 | A21147 Nucleotide |
| C 133 | 11.6 | 58.0 | 95 | 6 | I36659 | Sequence 7 | C 206 | 11.2 | 56.0 | 60 | 6 | E01231 | E01231 DNA probe t |
| C 134 | 11.4 | 57.0 | 18 | 6 | AR161719 | Sequence | C 207 | 11.2 | 56.0 | 73 | 6 | AX233551 | AX233551 Sequence |
| C 135 | 11.4 | 57.0 | 28 | 6 | I73378 | Sequence 3 | C 208 | 11.2 | 56.0 | 78 | 8 | NEUCOX6 | M12118 N. crassa cy |
| C 136 | 11.4 | 57.0 | 30 | 6 | I73378 | Sequence 3 | C 209 | 11.2 | 56.0 | 81 | 6 | A24426 | A24426 SCFV1b 11k |
| C 137 | 11.4 | 57.0 | 30 | 6 | I78508 | Sequence 3 | C 210 | 11.2 | 56.0 | 86 | 6 | I06672 | I06672 Sequence 9 |
| C 138 | 11.4 | 57.0 | 31 | 6 | AX248274 | Sequence | C 211 | 11.2 | 56.0 | 87 | 6 | AR054867 | AR054867 Sequence |
| C 139 | 11.4 | 57.0 | 31 | 6 | AX248718 | Sequence | C 212 | 11.2 | 56.0 | 87 | 6 | AR066132 | AR066132 Sequence |
| C 140 | 11.4 | 57.0 | 36 | 6 | AX012956 | Sequence | C 213 | 11.2 | 56.0 | 87 | 6 | HSRNP12S11 | US6685 Human renal |
| C 141 | 11.4 | 57.0 | 39 | 6 | AR073931 | Sequence | C 214 | 11.2 | 56.0 | 90 | 6 | AX287830 | AX287830 Sequence |
| C 142 | 11.4 | 57.0 | 39 | 6 | AR075099 | Sequence | C 215 | 11.2 | 56.0 | 91 | 6 | A69893 | A69893 Sequence 22 |
| C 143 | 11.4 | 57.0 | 51 | 6 | AX158128 | Sequence | C 216 | 11.2 | 56.0 | 96 | 6 | I40749 | I40749 Sequence 80 |
| C 144 | 11.4 | 57.0 | 51 | 6 | AX204107 | Sequence | C 217 | 11.2 | 56.0 | 96 | 11 | HUMSNX1092 | L47489 Human chrom |
| C 145 | 11.4 | 57.0 | 58 | 6 | AR127631 | Sequence | C 218 | 11.2 | 56.0 | 98 | 11 | G18569 | G18569 BMS470 cow |
| C 146 | 11.4 | 57.0 | 58 | 6 | I75300 | Sequence 49 | C 219 | 11 | 55.0 | 19 | 6 | AR054615 | AR054615 Sequence |

| | | | | | | | | | | | | | |
|-------|----|------|----|----|-----------|--------------------|-------|----|------|----|----|-----------|-----------------------|
| c 220 | 11 | 55.0 | 20 | 6 | AR123697 | Sequence | 293 | 11 | 55.0 | 63 | 6 | A40213 | A40213 Sequence 12 |
| c 221 | 11 | 55.0 | 20 | 6 | AX053095 | Sequence | 294 | 11 | 55.0 | 64 | 6 | E04014 | E04014 Synthetic D |
| c 222 | 11 | 55.0 | 20 | 11 | HUM100VB | D50140 A PCR prime | c 295 | 11 | 55.0 | 66 | 6 | S81566 | S81566 V alpha 13- |
| c 223 | 11 | 55.0 | 21 | 6 | AR074257 | Sequence | 296 | 11 | 55.0 | 66 | 9 | AF043766 | AF043766 Homo sapi |
| c 224 | 11 | 55.0 | 21 | 6 | AR074271 | Sequence | 297 | 11 | 55.0 | 66 | 9 | AF043803 | AF043803 Homo sapi |
| c 225 | 11 | 55.0 | 21 | 6 | AX032619 | Sequence | 298 | 11 | 55.0 | 66 | 9 | AF043804 | AF043804 Homo sapi |
| c 226 | 11 | 55.0 | 21 | 6 | AX032633 | Sequence | 299 | 11 | 55.0 | 66 | 9 | AF043805 | AF043805 Homo sapi |
| c 227 | 11 | 55.0 | 21 | 6 | E29477 | Method for | 300 | 11 | 55.0 | 67 | 9 | AY055808 | AY055808 Homo sapi |
| c 228 | 11 | 55.0 | 24 | 6 | AX247570 | Sequence | 301 | 11 | 55.0 | 69 | 9 | MNKS7AB | MNKS7AB Monkey sp. |
| c 229 | 11 | 55.0 | 24 | 6 | AX289609 | Sequence | 302 | 11 | 55.0 | 69 | 9 | AF043764 | AF043764 Homo sapi |
| c 230 | 11 | 55.0 | 24 | 6 | AX292417 | Sequence | 303 | 11 | 55.0 | 69 | 9 | AF043809 | AF043809 Homo sapi |
| c 231 | 11 | 55.0 | 25 | 9 | HS278027 | H.sapiens T | 304 | 11 | 55.0 | 69 | 9 | AF043810 | AF043810 Homo sapi |
| c 232 | 11 | 55.0 | 26 | 6 | AR026952 | Sequence | 305 | 11 | 55.0 | 69 | 9 | AF043811 | AF043811 Homo sapi |
| c 233 | 11 | 55.0 | 27 | 6 | A46353 | Sequence 4 | 306 | 11 | 55.0 | 69 | 9 | AF043812 | AF043812 Homo sapi |
| c 234 | 11 | 55.0 | 28 | 6 | AX076891 | Sequence | 307 | 11 | 55.0 | 69 | 9 | AF043815 | AF043815 Homo sapi |
| c 235 | 11 | 55.0 | 29 | 6 | AR174575 | Sequence | 308 | 11 | 55.0 | 70 | 6 | AR054818 | AR054818 Sequence |
| c 236 | 11 | 55.0 | 29 | 6 | AX280176 | Sequence | 309 | 11 | 55.0 | 70 | 6 | AR066083 | AR066083 Sequence |
| c 237 | 11 | 55.0 | 30 | 6 | A31719 | Mutagenesis | 310 | 11 | 55.0 | 71 | 6 | AR054816 | AR054816 Sequence |
| c 238 | 11 | 55.0 | 30 | 6 | BD009716 | Sequence | 311 | 11 | 55.0 | 71 | 6 | AR066081 | AR066081 Sequence |
| c 239 | 11 | 55.0 | 30 | 6 | I20700 | Sequence 13 | c 312 | 11 | 55.0 | 72 | 6 | AR066081 | AR066081 Sequence |
| c 240 | 11 | 55.0 | 30 | 6 | I71910 | Sequence 13 | c 313 | 11 | 55.0 | 72 | 6 | AR004311 | AR004311 Sequence |
| c 241 | 11 | 55.0 | 31 | 6 | I12138 | Sequence 43 | c 314 | 11 | 55.0 | 72 | 6 | AR004314 | AR004314 Sequence |
| c 242 | 11 | 55.0 | 31 | 6 | I41308 | Sequence 43 | c 315 | 11 | 55.0 | 72 | 6 | I14068 | I14068 Sequence 3 |
| c 243 | 11 | 55.0 | 33 | 10 | MMQ2BEX6 | Sequence 6 | c 316 | 11 | 55.0 | 72 | 6 | I14071 | I14071 Sequence 6 |
| c 244 | 11 | 55.0 | 34 | 6 | AR050581 | Sequence | 317 | 11 | 55.0 | 72 | 9 | AF043768 | AF043768 Homo sapi |
| c 245 | 11 | 55.0 | 35 | 6 | I09235 | Sequence 42 | 318 | 11 | 55.0 | 72 | 9 | AF043813 | AF043813 Homo sapi |
| c 246 | 11 | 55.0 | 42 | 9 | HSA010886 | Homo sapi | 319 | 11 | 55.0 | 72 | 9 | AF043814 | AF043814 Homo sapi |
| c 247 | 11 | 55.0 | 44 | 6 | A26139 | Artificial | 320 | 11 | 55.0 | 72 | 9 | AF043853 | AF043853 Homo sapi |
| c 248 | 11 | 55.0 | 44 | 6 | AR142499 | Sequence | 321 | 11 | 55.0 | 72 | 9 | AF043858 | AF043858 Homo sapi |
| c 249 | 11 | 55.0 | 44 | 6 | I19177 | Sequence 6 | 322 | 11 | 55.0 | 72 | 9 | AF267829 | AF267829 Homo sapi |
| c 250 | 11 | 55.0 | 45 | 9 | HS235205 | Homo sapi | 323 | 11 | 55.0 | 73 | 5 | CHK5SRC3 | CHK5SRC3 Gallus c- |
| c 251 | 11 | 55.0 | 45 | 9 | HSTCRBL1 | Sequence | c 324 | 11 | 55.0 | 75 | 9 | HSXTCRA09 | HSXTCRA09 Homo sapi |
| c 252 | 11 | 55.0 | 47 | 6 | A10494 | Oligonucleo | 325 | 11 | 55.0 | 75 | 9 | AF043765 | AF043765 Homo sapi |
| c 253 | 11 | 55.0 | 47 | 6 | A13652 | Oligonucleo | 326 | 11 | 55.0 | 75 | 9 | AF043841 | AF043841 Homo sapi |
| c 254 | 11 | 55.0 | 47 | 6 | AK032586 | Sequence | 327 | 11 | 55.0 | 75 | 9 | AF043842 | AF043842 Homo sapi |
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| c 257 | 11 | 55.0 | 48 | 6 | I09577 | Sequence 11 | 330 | 11 | 55.0 | 75 | 9 | AF043845 | AF043845 Homo sapi |
| c 258 | 11 | 55.0 | 48 | 9 | HS235212 | Homo sapi | 331 | 11 | 55.0 | 75 | 9 | AF043846 | AF043846 Homo sapi |
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| c 260 | 11 | 55.0 | 48 | 9 | HSTR5X1 | H.sapiens m | 333 | 11 | 55.0 | 75 | 9 | AF043852 | AF043852 Homo sapi |
| c 261 | 11 | 55.0 | 48 | 9 | HSTR5X13 | H.sapiens m | 334 | 11 | 55.0 | 75 | 9 | AF043854 | AF043854 Homo sapi |
| c 262 | 11 | 55.0 | 48 | 9 | HSTR5X14 | H.sapiens m | 335 | 11 | 55.0 | 78 | 9 | AF043806 | AF043806 Homo sapi |
| c 263 | 11 | 55.0 | 48 | 9 | HSTR5X16 | H.sapiens m | 336 | 11 | 55.0 | 78 | 9 | AF043807 | AF043807 Homo sapi |
| c 264 | 11 | 55.0 | 48 | 9 | HSTR5X19 | H.sapiens m | 337 | 11 | 55.0 | 78 | 9 | AF043808 | AF043808 Homo sapi |
| c 265 | 11 | 55.0 | 48 | 9 | HSTR5X29 | H.sapiens m | 338 | 11 | 55.0 | 78 | 9 | AF043840 | AF043840 Homo sapi |
| c 266 | 11 | 55.0 | 48 | 9 | HSTR5X6 | H.sapiens m | 339 | 11 | 55.0 | 78 | 9 | AF043848 | AF043848 Homo sapi |
| c 267 | 11 | 55.0 | 48 | 9 | HSTR5X9 | H.sapiens m | 340 | 11 | 55.0 | 78 | 9 | AF043849 | AF043849 Homo sapi |
| c 268 | 11 | 55.0 | 48 | 9 | HSTRK25 | H.sapiens m | 341 | 11 | 55.0 | 78 | 9 | AF043850 | AF043850 Homo sapi |
| c 269 | 11 | 55.0 | 48 | 9 | HSU26973 | H.sapiens m | 342 | 11 | 55.0 | 78 | 9 | AF043851 | AF043851 Homo sapi |
| c 270 | 11 | 55.0 | 48 | 9 | S72988 | Human Isola | 343 | 11 | 55.0 | 78 | 9 | AF043855 | AF043855 Homo sapi |
| c 271 | 11 | 55.0 | 49 | 9 | HSU27249 | TCR V alpha | 344 | 11 | 55.0 | 78 | 9 | AF043856 | AF043856 Homo sapi |
| c 272 | 11 | 55.0 | 51 | 6 | A40212 | Human Isola | 345 | 11 | 55.0 | 78 | 9 | AF043857 | AF043857 Homo sapi |
| c 273 | 11 | 55.0 | 51 | 6 | AX158928 | Sequence 11 | 346 | 11 | 55.0 | 78 | 10 | MMU272166 | MMU272166 Mus muscu |
| c 274 | 11 | 55.0 | 51 | 6 | AX161158 | Sequence | c 347 | 11 | 55.0 | 80 | 6 | A62681 | A62681 Sequence 18 |
| c 275 | 11 | 55.0 | 51 | 6 | AX161857 | Sequence | c 348 | 11 | 55.0 | 81 | 6 | A18219 | A18219 HRV core (a |
| c 276 | 11 | 55.0 | 51 | 6 | AX161858 | Sequence | c 349 | 11 | 55.0 | 81 | 6 | AR126039 | AR126039 Sequence |
| c 277 | 11 | 55.0 | 51 | 6 | AX165198 | Sequence | c 350 | 11 | 55.0 | 81 | 6 | BD004807 | BD004807 Compositi |
| c 278 | 11 | 55.0 | 51 | 9 | S66955 | TCR alpha V | c 351 | 11 | 55.0 | 81 | 6 | HSXTCRA07 | HSXTCRA07 H.sapiens m |
| c 279 | 11 | 55.0 | 51 | 9 | S66957 | TCR alpha V | c 352 | 11 | 55.0 | 81 | 9 | AF043767 | AF043767 Homo sapi |
| c 280 | 11 | 55.0 | 54 | 9 | HSTCELI16 | H.sapiens r | c 353 | 11 | 55.0 | 84 | 6 | AR004312 | AR004312 Sequence |
| c 281 | 11 | 55.0 | 55 | 6 | I49634 | Sequence 1 | c 354 | 11 | 55.0 | 84 | 6 | AR004315 | AR004315 Sequence |
| c 282 | 11 | 55.0 | 55 | 6 | I49635 | Sequence 2 | c 355 | 11 | 55.0 | 84 | 6 | I14069 | I14069 Sequence 4 |
| c 283 | 11 | 55.0 | 57 | 9 | HS4403921 | Sequence | c 356 | 11 | 55.0 | 84 | 6 | I14072 | I14072 Sequence 7 |
| c 284 | 11 | 55.0 | 58 | 6 | AX322208 | Sequence | c 357 | 11 | 55.0 | 87 | 9 | AF043769 | AF043769 Homo sapi |
| c 285 | 11 | 55.0 | 59 | 6 | AX011394 | Sequence | c 358 | 11 | 55.0 | 90 | 4 | PICTRCDO1 | PICTRCDO1 Sus scrofa |
| c 286 | 11 | 55.0 | 60 | 6 | AR060774 | Sequence | c 359 | 11 | 55.0 | 90 | 9 | AY006291 | AY006291 Homo sapi |
| c 287 | 11 | 55.0 | 60 | 6 | AR135783 | Sequence | c 360 | 11 | 55.0 | 90 | 9 | HSTCRA263 | HSTCRA263 Homo sapi |
| c 288 | 11 | 55.0 | 60 | 6 | AR139282 | Sequence | c 361 | 11 | 55.0 | 90 | 9 | HSU30212 | HSU30212 Human clone |
| c 289 | 11 | 55.0 | 60 | 9 | HSU14055 | Human T cel | c 362 | 11 | 55.0 | 90 | 9 | HMTCRACA | HMTCRACA Homo sapien |
| c 290 | 11 | 55.0 | 60 | 9 | AF044126 | Homo sapi | c 363 | 11 | 55.0 | 91 | 9 | AY006317 | AY006317 Homo sapi |
| c 291 | 11 | 55.0 | 61 | 6 | AR126047 | Sequence | c 364 | 11 | 55.0 | 93 | 6 | A39661 | A39661 Sequence 3 |
| c 292 | 11 | 55.0 | 62 | 10 | MUSBMP24K | Mouse gene | c 365 | 11 | 55.0 | 93 | 6 | I25454 | I25454 Sequence 3 |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|------------|---------------------|-----|------|------|----|---|-----------|----------------------|
| C 366 | 11 | 55.0 | 93 | 6 | 125862 | I25862 Sequence 3 | 439 | 10.8 | 54.0 | 82 | 6 | E31031 | E31031 Method for |
| C 367 | 11 | 55.0 | 93 | 6 | 163540 | I63540 Sequence 3 | 440 | 10.8 | 54.0 | 83 | 6 | AX009741 | AX009741 Sequence |
| C 368 | 11 | 55.0 | 95 | 6 | ARI65705 | ARI65705 Sequence | 441 | 10.8 | 54.0 | 86 | 6 | AR045063 | AR045063 Sequence |
| C 369 | 11 | 55.0 | 96 | 6 | HSB309545 | HSB309545 Homo sapi | 442 | 10.8 | 54.0 | 86 | 6 | I18595 | I18595 Sequence 64 |
| C 370 | 11 | 55.0 | 97 | 9 | AY006270 | AY006270 Homo sapi | 443 | 10.8 | 54.0 | 86 | 6 | I34139 | I34139 Sequence 64 |
| C 371 | 10.8 | 54.0 | 17 | 6 | AX217834 | AX217834 Sequence | 444 | 10.8 | 54.0 | 87 | 6 | AR045077 | AR045077 Sequence |
| C 372 | 10.8 | 54.0 | 18 | 6 | AR042285 | AR042285 Sequence | 445 | 10.8 | 54.0 | 87 | 6 | I18609 | I18609 Sequence 78 |
| C 373 | 10.8 | 54.0 | 18 | 6 | ARI72170 | ARI72170 Sequence | 446 | 10.8 | 54.0 | 87 | 6 | I34153 | I34153 Sequence 78 |
| C 374 | 10.8 | 54.0 | 19 | 6 | AX119966 | AX119966 Sequence | 447 | 10.8 | 54.0 | 90 | 9 | HSAGC119 | HSAGC119 Human aggre |
| C 375 | 10.8 | 54.0 | 20 | 6 | AR100026 | AR100026 Sequence | 448 | 10.8 | 54.0 | 90 | 9 | HSBPNBVR | HSBPNBVR Homo saplen |
| C 376 | 10.8 | 54.0 | 20 | 6 | AR034761 | AR034761 Sequence | 449 | 10.8 | 54.0 | 90 | 9 | S61989 | S61989 TCR alpha - |
| C 377 | 10.8 | 54.0 | 20 | 6 | ARI00360 | ARI00360 Sequence | 450 | 10.8 | 54.0 | 97 | 8 | ATF240079 | ATF240079 Arabidops |
| C 378 | 10.8 | 54.0 | 20 | 6 | ARI50015 | ARI50015 Sequence | 451 | 10.6 | 53.0 | 17 | 6 | ARI71159 | ARI71159 Sequence |
| C 379 | 10.8 | 54.0 | 20 | 6 | AX008682 | AX008682 Sequence | 452 | 10.6 | 53.0 | 17 | 6 | ARI76148 | ARI76148 Sequence |
| C 380 | 10.8 | 54.0 | 20 | 6 | AX167862 | AX167862 Sequence | 453 | 10.6 | 53.0 | 17 | 6 | AX068517 | AX068517 Sequence |
| C 381 | 10.8 | 54.0 | 20 | 6 | AX294049 | AX294049 Sequence | 454 | 10.6 | 53.0 | 17 | 6 | AX191184 | AX191184 Sequence |
| C 382 | 10.8 | 54.0 | 20 | 6 | AX294577 | AX294577 Sequence | 455 | 10.6 | 53.0 | 18 | 6 | ARI06905 | ARI06905 Sequence |
| C 383 | 10.8 | 54.0 | 20 | 6 | I24753 | I24753 Sequence 16 | 456 | 10.6 | 53.0 | 18 | 6 | ARI06976 | ARI06976 Sequence |
| C 384 | 10.8 | 54.0 | 21 | 6 | AX096697 | AX096697 Sequence | 457 | 10.6 | 53.0 | 18 | 6 | AX039289 | AX039289 Sequence |
| C 385 | 10.8 | 54.0 | 21 | 6 | E29475 | E29475 Method for | 458 | 10.6 | 53.0 | 18 | 6 | AX201419 | AX201419 Sequence |
| C 386 | 10.8 | 54.0 | 21 | 6 | E29479 | E29479 Method for | 459 | 10.6 | 53.0 | 20 | 6 | ARI00390 | ARI00390 Sequence |
| C 387 | 10.8 | 54.0 | 23 | 6 | AX116606 | AX116606 Sequence | 460 | 10.6 | 53.0 | 20 | 6 | ARI29675 | ARI29675 Sequence |
| C 388 | 10.8 | 54.0 | 23 | 6 | AX181983 | AX181983 Sequence | 461 | 10.6 | 53.0 | 20 | 6 | ARI50045 | ARI50045 Sequence |
| C 389 | 10.8 | 54.0 | 24 | 6 | AR069204 | AR069204 Sequence | 462 | 10.6 | 53.0 | 20 | 6 | ARI50374 | ARI50374 Sequence |
| C 390 | 10.8 | 54.0 | 24 | 6 | AX033023 | AX033023 Sequence | 463 | 10.6 | 53.0 | 20 | 6 | ARI62015 | ARI62015 Sequence |
| C 391 | 10.8 | 54.0 | 24 | 6 | AX068882 | AX068882 Sequence | 464 | 10.6 | 53.0 | 20 | 6 | I38899 | I38899 Sequence 9 |
| C 392 | 10.8 | 54.0 | 24 | 6 | AX167983 | AX167983 Sequence | 465 | 10.6 | 53.0 | 20 | 6 | I87930 | I87930 Sequence 9 |
| C 393 | 10.8 | 54.0 | 24 | 6 | AX289416 | AX289416 Sequence | 466 | 10.6 | 53.0 | 21 | 6 | ARI38715 | ARI38715 Sequence |
| C 394 | 10.8 | 54.0 | 24 | 6 | AX289944 | AX289944 Sequence | 467 | 10.6 | 53.0 | 21 | 6 | ARI71097 | ARI71097 Sequence |
| C 395 | 10.8 | 54.0 | 24 | 6 | I64422 | I64422 Sequence 44 | 468 | 10.6 | 53.0 | 21 | 6 | ARI71098 | ARI71098 Sequence |
| C 396 | 10.8 | 54.0 | 25 | 6 | AX114578 | AX114578 Sequence | 469 | 10.6 | 53.0 | 21 | 6 | AX068455 | AX068455 Sequence |
| C 397 | 10.8 | 54.0 | 27 | 6 | AX103952 | AX103952 Sequence | 470 | 10.6 | 53.0 | 21 | 6 | AX068456 | AX068456 Sequence |
| C 398 | 10.8 | 54.0 | 27 | 6 | AX103953 | AX103953 Sequence | 471 | 10.6 | 53.0 | 22 | 6 | AR052922 | AR052922 Sequence |
| C 399 | 10.8 | 54.0 | 27 | 6 | AX355744 | AX355744 Sequence | 472 | 10.6 | 53.0 | 22 | 6 | AR054285 | AR054285 Sequence |
| C 400 | 10.8 | 54.0 | 27 | 6 | AX355756 | AX355756 Sequence | 473 | 10.6 | 53.0 | 22 | 6 | AR054487 | AR054487 Sequence |
| C 401 | 10.8 | 54.0 | 28 | 6 | AR090989 | AR090989 Sequence | 474 | 10.6 | 53.0 | 24 | 6 | ARI51096 | ARI51096 Sequence |
| C 402 | 10.8 | 54.0 | 29 | 6 | I15538 | I15538 Sequence 5 | 475 | 10.6 | 53.0 | 24 | 6 | BD006695 | BD006695 Transport |
| C 403 | 10.8 | 54.0 | 29 | 6 | I73515 | I73515 Sequence 5 | 476 | 10.6 | 53.0 | 27 | 6 | AX012374 | AX012374 Sequence |
| C 404 | 10.8 | 54.0 | 29 | 6 | I73518 | I73518 Sequence 5 | 477 | 10.6 | 53.0 | 27 | 6 | AX278519 | AX278519 Sequence |
| C 405 | 10.8 | 54.0 | 30 | 6 | AR028311 | AR028311 Sequence | 478 | 10.6 | 53.0 | 27 | 6 | E59980 | E59980 Highly acti |
| C 406 | 10.8 | 54.0 | 30 | 6 | AX128382 | AX128382 Sequence | 479 | 10.6 | 53.0 | 27 | 6 | AR042645 | AR042645 Sequence |
| C 407 | 10.8 | 54.0 | 30 | 6 | AX225213 | AX225213 Sequence | 480 | 10.6 | 53.0 | 29 | 6 | AR064778 | AR064778 Sequence |
| C 408 | 10.8 | 54.0 | 31 | 6 | AR090078 | AR090078 Sequence | 481 | 10.6 | 53.0 | 29 | 6 | AR000084 | AR000084 Sequence |
| C 409 | 10.8 | 54.0 | 32 | 6 | AY93010 | AY93010 Sequence 7 | 482 | 10.6 | 53.0 | 30 | 6 | AR004744 | AR004744 Sequence |
| C 410 | 10.8 | 54.0 | 33 | 6 | I11459 | I11459 Sequence 13 | 483 | 10.6 | 53.0 | 30 | 6 | AR008230 | AR008230 Sequence |
| C 411 | 10.8 | 54.0 | 36 | 6 | AR084707 | AR084707 Sequence | 484 | 10.6 | 53.0 | 30 | 6 | AR064907 | AR064907 Sequence |
| C 412 | 10.8 | 54.0 | 36 | 6 | I29846 | I29846 Sequence 32 | 485 | 10.6 | 53.0 | 30 | 6 | ARI37013 | ARI37013 Sequence |
| C 413 | 10.8 | 54.0 | 37 | 6 | AX023680 | AX023680 Sequence | 486 | 10.6 | 53.0 | 30 | 6 | BD007281 | BD007281 Novel flt |
| C 414 | 10.8 | 54.0 | 39 | 6 | AX230498 | AX230498 Sequence | 487 | 10.6 | 53.0 | 30 | 6 | I77014 | I77014 Sequence 74 |
| C 415 | 10.8 | 54.0 | 44 | 6 | I64495 | I64495 Sequence 9 | 488 | 10.6 | 53.0 | 30 | 6 | I81009 | I81009 Sequence 74 |
| C 416 | 10.8 | 54.0 | 50 | 6 | AX156844 | AX156844 Sequence | 489 | 10.6 | 53.0 | 30 | 6 | I81105 | I81105 Sequence 74 |
| C 417 | 10.8 | 54.0 | 50 | 6 | BD002070 | BD002070 Method of | 490 | 10.6 | 53.0 | 31 | 6 | I92392 | I92392 Sequence 44 |
| C 418 | 10.8 | 54.0 | 51 | 6 | AX156843 | AX156843 Sequence | 491 | 10.6 | 53.0 | 31 | 6 | I92394 | I92394 Sequence 46 |
| C 419 | 10.8 | 54.0 | 51 | 6 | AX157842 | AX157842 Sequence | 492 | 10.6 | 53.0 | 31 | 6 | AR004356 | AR004356 Sequence |
| C 420 | 10.8 | 54.0 | 51 | 6 | AX159935 | AX159935 Sequence | 493 | 10.6 | 53.0 | 33 | 6 | AR097147 | AR097147 Sequence |
| C 421 | 10.8 | 54.0 | 51 | 6 | AX162563 | AX162563 Sequence | 494 | 10.6 | 53.0 | 33 | 6 | ARI30645 | ARI30645 Sequence |
| C 422 | 10.8 | 54.0 | 51 | 6 | AX162564 | AX162564 Sequence | 495 | 10.6 | 53.0 | 33 | 6 | ARI71994 | ARI71994 Sequence |
| C 423 | 10.8 | 54.0 | 51 | 6 | AX163052 | AX163052 Sequence | 496 | 10.6 | 53.0 | 33 | 6 | I82831 | I82831 Sequence 10 |
| C 424 | 10.8 | 54.0 | 51 | 6 | HUMTCVD1FQ | HUMTCVD1FQ | 497 | 10.6 | 53.0 | 34 | 6 | AX280211 | AX280211 Sequence |
| C 425 | 10.8 | 54.0 | 54 | 6 | AX004767 | AX004767 Sequence | 498 | 10.6 | 53.0 | 35 | 6 | AX056755 | AX056755 Sequence |
| C 426 | 10.8 | 54.0 | 57 | 9 | HUMTCRVJ59 | HUMTCRVJ59 | 499 | 10.6 | 53.0 | 35 | 6 | I85764 | I85764 Sequence 3 |
| C 427 | 10.8 | 54.0 | 57 | 14 | TM1315998 | TM1315998 | 500 | 10.6 | 53.0 | 36 | 6 | ARI19716 | ARI19716 Sequence 4 |
| C 428 | 10.8 | 54.0 | 60 | 14 | SHITRANSIA | SHITRANSIA | 501 | 10.6 | 53.0 | 37 | 6 | ARI17095 | ARI17095 Sequence |
| C 429 | 10.8 | 54.0 | 64 | 10 | AF265954 | AF265954 Mus muscu | 502 | 10.6 | 53.0 | 37 | 6 | I38331 | I38331 Sequence 18 |
| C 430 | 10.8 | 54.0 | 66 | 6 | AX135388 | AX135388 Sequence | 503 | 10.6 | 53.0 | 37 | 6 | ARI48181 | ARI48181 Sequence |
| C 431 | 10.8 | 54.0 | 71 | 6 | ARI46939 | ARI46939 Sequence | 504 | 10.6 | 53.0 | 38 | 6 | AX356243 | AX356243 Sequence |
| C 432 | 10.8 | 54.0 | 71 | 6 | AX045644 | AX045644 Sequence | 505 | 10.6 | 53.0 | 39 | 6 | AX31105 | AX31105 primer 2 fr |
| C 433 | 10.8 | 54.0 | 75 | 6 | ARI61474 | ARI61474 Sequence | 506 | 10.6 | 53.0 | 40 | 6 | A33402 | A33402 Synthetic P |
| C 434 | 10.8 | 54.0 | 75 | 6 | BD003677 | BD003677 Mononucle | 507 | 10.6 | 53.0 | 40 | 6 | ARI48816 | ARI48816 Sequence |
| C 435 | 10.8 | 54.0 | 75 | 6 | BD003678 | BD003678 Mononucle | 508 | 10.6 | 53.0 | 40 | 6 | AX009742 | AX009742 Sequence |
| C 436 | 10.8 | 54.0 | 75 | 10 | MUSIGHP233 | MUSIGHP233 | 509 | 10.6 | 53.0 | 40 | 6 | AF267802 | AF267802 Homo sapi |
| C 437 | 10.8 | 54.0 | 77 | 6 | AX009742 | AX009742 Sequence | 510 | 10.6 | 53.0 | 43 | 6 | AF267802 | AF267802 Homo sapi |
| C 438 | 10.8 | 54.0 | 81 | 9 | AF267802 | AF267802 Homo sapi | 511 | 10.6 | 53.0 | 43 | 6 | AF267802 | AF267802 Homo sapi |

| | | | | | | | | | | | | | |
|-----|------|------|----|----|------------|--------------------|-------|------|------|----|----|------------|-----------------------|
| 512 | 10.6 | 53.0 | 43 | 6 | I34858 | Sequence 1 | c 585 | 10.4 | 52.0 | 20 | 6 | AX294737 | AX294737 Sequence |
| 513 | 10.6 | 53.0 | 43 | 6 | I34860 | Sequence 3 | c 586 | 10.4 | 52.0 | 20 | 6 | AX295306 | AX295306 Sequence |
| 514 | 10.6 | 53.0 | 43 | 6 | I34861 | Sequence 4 | c 587 | 10.4 | 52.0 | 20 | 6 | E49515 | E49515 Antisense 0 |
| 515 | 10.6 | 53.0 | 45 | 6 | AR148173 | Sequence | c 588 | 10.4 | 52.0 | 20 | 6 | I27235 | I27235 Sequence 5 |
| 516 | 10.6 | 53.0 | 48 | 6 | AX055776 | Sequence | c 589 | 10.4 | 52.0 | 21 | 6 | A26756 | A26756 Oligonucleo |
| 517 | 10.6 | 53.0 | 48 | 6 | AX221616 | Sequence | c 590 | 10.4 | 52.0 | 21 | 6 | AR066671 | AR066671 Sequence |
| 518 | 10.6 | 53.0 | 48 | 6 | AX222036 | Sequence | c 591 | 10.4 | 52.0 | 22 | 6 | AX074552 | AX074552 Sequence |
| 519 | 10.6 | 53.0 | 48 | 6 | AX222950 | Sequence | c 592 | 10.4 | 52.0 | 23 | 6 | AX118279 | AX118279 Sequence |
| 520 | 10.6 | 53.0 | 50 | 6 | AX159704 | Sequence | c 593 | 10.4 | 52.0 | 23 | 6 | AX147208 | AX147208 Sequence |
| 521 | 10.6 | 53.0 | 50 | 6 | AX190067 | Sequence | c 594 | 10.4 | 52.0 | 24 | 6 | A58397 | A58397 Sequence 5 |
| 522 | 10.6 | 53.0 | 50 | 6 | HSMAL1508 | Sequence | c 595 | 10.4 | 52.0 | 24 | 6 | A64072 | A64072 Sequence 9 |
| 523 | 10.6 | 53.0 | 51 | 6 | AX159703 | Sequence | c 596 | 10.4 | 52.0 | 24 | 6 | AR137394 | AR137394 Sequence |
| 524 | 10.6 | 53.0 | 51 | 6 | AX190066 | Sequence | c 597 | 10.4 | 52.0 | 24 | 6 | AR137399 | AR137399 Sequence |
| 525 | 10.6 | 53.0 | 51 | 6 | AX190107 | Sequence | c 598 | 10.4 | 52.0 | 24 | 6 | AR137406 | AR137406 Sequence |
| 526 | 10.6 | 53.0 | 51 | 6 | AX190246 | Sequence | c 599 | 10.4 | 52.0 | 24 | 6 | AX288673 | AX288673 Sequence |
| 527 | 10.6 | 53.0 | 51 | 6 | AX190247 | Sequence | c 600 | 10.4 | 52.0 | 24 | 6 | AX288404 | AX288404 Sequence |
| 528 | 10.6 | 53.0 | 51 | 10 | U92152 | Mus musculu | c 601 | 10.4 | 52.0 | 24 | 6 | AX290104 | AX290104 Sequence |
| 529 | 10.6 | 53.0 | 56 | 6 | E04013 | EO4013 Synthet | c 602 | 10.4 | 52.0 | 24 | 6 | AX290673 | AX290673 Sequence |
| 530 | 10.6 | 53.0 | 57 | 14 | AF011592 | AF011592 Homo sapi | c 603 | 10.4 | 52.0 | 24 | 6 | AX291993 | AX291993 Sequence |
| 531 | 10.6 | 53.0 | 57 | 14 | TM1316005 | AJ316005 TTY-like | c 604 | 10.4 | 52.0 | 24 | 6 | I69111 | I69111 Sequence 38 |
| 532 | 10.6 | 53.0 | 60 | 9 | AF220212 | AF220212 Homo sapi | c 605 | 10.4 | 52.0 | 25 | 6 | AX048796 | AX048796 Sequence |
| 533 | 10.6 | 53.0 | 60 | 9 | AF220213 | AF220213 Homo sapi | c 606 | 10.4 | 52.0 | 26 | 6 | AR081777 | AR081777 Sequence |
| 534 | 10.6 | 53.0 | 60 | 10 | MUSTCRECT1 | M16215 Mouse (tran | c 607 | 10.4 | 52.0 | 26 | 6 | AR089215 | AR089215 Sequence |
| 535 | 10.6 | 53.0 | 63 | 9 | S69664 | TCR V delta | c 608 | 10.4 | 52.0 | 26 | 6 | AX118278 | AX118278 Sequence |
| 536 | 10.6 | 53.0 | 66 | 6 | A03735 | A03735 Nucleotide | c 609 | 10.4 | 52.0 | 26 | 6 | AX329119 | AX329119 Sequence |
| 537 | 10.6 | 53.0 | 66 | 6 | ACX1789 | A31789 DNA fragmen | c 610 | 10.4 | 52.0 | 28 | 6 | AR159659 | AR159659 Sequence |
| 538 | 10.6 | 53.0 | 71 | 3 | AGXH19 | 272012 A.gambiea s | c 611 | 10.4 | 52.0 | 28 | 6 | AX300614 | AX300614 Sequence |
| 539 | 10.6 | 53.0 | 72 | 8 | AF069449 | Candida a | c 612 | 10.4 | 52.0 | 28 | 6 | AX300615 | AX300615 Sequence |
| 540 | 10.6 | 53.0 | 74 | 6 | AR147492 | Sequence | c 613 | 10.4 | 52.0 | 29 | 6 | AX09537 | AX09537 Sequence |
| 541 | 10.6 | 53.0 | 77 | 6 | AR042619 | Sequence | c 614 | 10.4 | 52.0 | 30 | 6 | AR027432 | AR027432 Sequence 19 |
| 542 | 10.6 | 53.0 | 77 | 6 | AR064752 | Sequence | c 615 | 10.4 | 52.0 | 30 | 6 | AX207312 | AX207312 Sequence |
| 543 | 10.6 | 53.0 | 81 | 14 | AF018371 | AF018371 Hepatitis | c 616 | 10.4 | 52.0 | 30 | 23 | E10959 | E10959 Primer 9/2 |
| 544 | 10.6 | 53.0 | 85 | 6 | A10366 | Nucleotide | c 617 | 10.4 | 52.0 | 31 | 6 | AX248147 | AX248147 Sequence |
| 545 | 10.6 | 53.0 | 85 | 6 | A10367 | Nucleotide | c 618 | 10.4 | 52.0 | 31 | 6 | I17637 | I17637 Sequence 1 |
| 546 | 10.6 | 53.0 | 85 | 6 | A10368 | Nucleotide | c 619 | 10.4 | 52.0 | 31 | 6 | I33855 | I33855 Sequence 1 |
| 547 | 10.6 | 53.0 | 89 | 6 | A10369 | Nucleotide | c 620 | 10.4 | 52.0 | 31 | 6 | I41130 | I41130 Sequence 1 |
| 548 | 10.6 | 53.0 | 89 | 6 | A10370 | Nucleotide | c 621 | 10.4 | 52.0 | 32 | 6 | I69224 | I69224 Sequence 49 |
| 549 | 10.6 | 53.0 | 90 | 4 | OCU72579 | U72579 Oryctolagus | c 622 | 10.4 | 52.0 | 33 | 6 | A08678 | A08678 Oligonucleo |
| 550 | 10.6 | 53.0 | 90 | 5 | CHKMG180 | L3669 Gallus dome | c 623 | 10.4 | 52.0 | 33 | 6 | A36981 | A36981 Sequence 32 |
| 551 | 10.6 | 53.0 | 92 | 9 | AF147980 | Homo sapi | c 624 | 10.4 | 52.0 | 33 | 6 | A39189 | A39189 Sequence 37 |
| 552 | 10.6 | 53.0 | 93 | 10 | MUSLINC2 | M32859 Mouse L1 re | c 625 | 10.4 | 52.0 | 33 | 6 | A39248 | A39248 Sequence 32 |
| 553 | 10.6 | 53.0 | 94 | 6 | AR017606 | Sequence | c 626 | 10.4 | 52.0 | 33 | 6 | AX104141 | AX104141 Sequence |
| 554 | 10.6 | 53.0 | 94 | 6 | AR094783 | Sequence | c 627 | 10.4 | 52.0 | 33 | 6 | AX104142 | AX104142 Sequence |
| 555 | 10.6 | 53.0 | 94 | 6 | AR165442 | Sequence | c 628 | 10.4 | 52.0 | 33 | 6 | AX319476 | AX319476 Sequence |
| 556 | 10.6 | 53.0 | 95 | 6 | AR134595 | Sequence | c 629 | 10.4 | 52.0 | 33 | 6 | AX355277 | AX355277 Sequence |
| 557 | 10.6 | 53.0 | 96 | 4 | SSU02628 | Sus scrofa | c 630 | 10.4 | 52.0 | 33 | 6 | AX355279 | AX355279 Sequence |
| 558 | 10.6 | 53.0 | 96 | 6 | A26458 | A26458 Soya beta-1 | c 631 | 10.4 | 52.0 | 34 | 6 | AR160107 | AR160107 Sequence |
| 559 | 10.6 | 53.0 | 96 | 6 | I16748 | I16748 Sequence 9 | c 632 | 10.4 | 52.0 | 35 | 6 | AR083735 | AR083735 Sequence |
| 560 | 10.6 | 53.0 | 96 | 9 | HUMAPPE1 | M16978 Human eryth | c 633 | 10.4 | 52.0 | 36 | 6 | AR001578 | AR001578 Sequence |
| 561 | 10.6 | 53.0 | 98 | 6 | AX047772 | AX047772 Sequence | c 634 | 10.4 | 52.0 | 37 | 6 | E17338 | E17338 RT-PCR prim |
| 562 | 10.6 | 53.0 | 99 | 6 | AR017652 | Sequence | c 635 | 10.4 | 52.0 | 37 | 6 | I69225 | I69225 Sequence 49 |
| 563 | 10.6 | 53.0 | 99 | 6 | AR094829 | Sequence | c 636 | 10.4 | 52.0 | 38 | 6 | AR008145 | AR008145 Sequence |
| 564 | 10.6 | 53.0 | 99 | 6 | AR165488 | Sequence | c 637 | 10.4 | 52.0 | 38 | 6 | AX235871 | AX235871 Sequence |
| 565 | 10.6 | 53.0 | 99 | 8 | AF318055 | Sambucus | c 638 | 10.4 | 52.0 | 39 | 10 | MMU0403495 | MMU0403495 Sequence |
| 566 | 10.4 | 52.0 | 16 | 6 | AR004480 | Sequence | c 639 | 10.4 | 52.0 | 40 | 6 | AX207146 | AX207146 Sequence |
| 567 | 10.4 | 52.0 | 17 | 6 | AR039201 | Sequence | c 640 | 10.4 | 52.0 | 40 | 6 | AX352148 | AX352148 Sequence |
| 568 | 10.4 | 52.0 | 18 | 6 | A97067 | Sequence 18 | c 641 | 10.4 | 52.0 | 40 | 6 | HS274605 | HS274605 Sequence |
| 569 | 10.4 | 52.0 | 18 | 6 | AR039665 | Sequence 18 | c 642 | 10.4 | 52.0 | 41 | 6 | A59035 | A59035 Sequence 23 |
| 570 | 10.4 | 52.0 | 18 | 6 | I40116 | Sequence 9 | c 643 | 10.4 | 52.0 | 41 | 9 | HUMBCA1126 | HUMBCA1126 Sequence 9 |
| 571 | 10.4 | 52.0 | 20 | 6 | A23228 | A23228 Oligonucleo | c 644 | 10.4 | 52.0 | 42 | 6 | AR091485 | AR091485 Sequence |
| 572 | 10.4 | 52.0 | 20 | 6 | AR040860 | Sequence | c 645 | 10.4 | 52.0 | 43 | 6 | A07815 | A07815 Oligonucleo |
| 573 | 10.4 | 52.0 | 20 | 6 | AR049761 | Sequence | c 646 | 10.4 | 52.0 | 43 | 6 | AR032418 | AR032418 Sequence |
| 574 | 10.4 | 52.0 | 20 | 6 | AR067189 | Sequence | c 647 | 10.4 | 52.0 | 43 | 6 | I29158 | I29158 Sequence 30 |
| 575 | 10.4 | 52.0 | 20 | 6 | AR068392 | Sequence | c 648 | 10.4 | 52.0 | 43 | 6 | I50832 | I50832 Sequence 30 |
| 576 | 10.4 | 52.0 | 20 | 6 | AR073936 | Sequence | c 649 | 10.4 | 52.0 | 44 | 6 | AR171244 | AR171244 Sequence |
| 577 | 10.4 | 52.0 | 20 | 6 | AR086262 | Sequence | c 650 | 10.4 | 52.0 | 44 | 6 | AX224246 | AX224246 Sequence |
| 578 | 10.4 | 52.0 | 20 | 6 | AR117655 | Sequence | c 651 | 10.4 | 52.0 | 45 | 6 | I09521 | I09521 Sequence 1 |
| 579 | 10.4 | 52.0 | 20 | 6 | AR149655 | Sequence | c 652 | 10.4 | 52.0 | 45 | 6 | A59036 | A59036 Sequence 24 |
| 580 | 10.4 | 52.0 | 20 | 6 | AR176828 | Sequence | c 653 | 10.4 | 52.0 | 45 | 6 | AR168035 | AR168035 Sequence |
| 581 | 10.4 | 52.0 | 20 | 6 | AX098706 | Sequence | c 654 | 10.4 | 52.0 | 45 | 10 | S77044 | S77044 T-cell rece |
| 582 | 10.4 | 52.0 | 20 | 6 | AX136939 | Sequence | c 655 | 10.4 | 52.0 | 46 | 6 | AR023959 | AR023959 Sequence |
| 583 | 10.4 | 52.0 | 20 | 6 | AX293306 | Sequence | c 656 | 10.4 | 52.0 | 46 | 6 | I15460 | I15460 Sequence 38 |
| 584 | 10.4 | 52.0 | 20 | 6 | AX294037 | Sequence | c 657 | 10.4 | 52.0 | 48 | 6 | AX338226 | AX338226 Sequence |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|--------------------|-------|------|------|----|----|------------|--------------------|
| 804 | 10.2 | 51.0 | 20 | 6 | AX355005 | AX355005 Sequence | 877 | 10.2 | 51.0 | 35 | 6 | BD011360 | BD011360 Chimeric |
| C 805 | 10.2 | 51.0 | 20 | 6 | E08344 | E08344 PCR primer | C 878 | 10.2 | 51.0 | 35 | 6 | BD011363 | BD011363 Chimeric |
| C 806 | 10.2 | 51.0 | 20 | 6 | E08353 | E08353 Primer for | C 879 | 10.2 | 51.0 | 35 | 6 | E43830 | E43830 Chimeric an |
| C 807 | 10.2 | 51.0 | 20 | 9 | HS960C61R | X87700 H.sapiens p | C 880 | 10.2 | 51.0 | 35 | 6 | E43833 | E43833 Chimeric an |
| C 808 | 10.2 | 51.0 | 20 | 11 | DOCCAB2B | L77403 Canis famli | C 881 | 10.2 | 51.0 | 35 | 11 | C75849 | C75849 Homo sapien |
| C 809 | 10.2 | 51.0 | 20 | 12 | AB068198 | AB068198 Synthetic | C 882 | 10.2 | 51.0 | 36 | 6 | A49370 | A49370 Homo sapien |
| C 810 | 10.2 | 51.0 | 21 | 6 | ARI20057 | ARI20057 Sequence | C 883 | 10.2 | 51.0 | 36 | 6 | ARI74928 | ARI74928 Sequence |
| C 811 | 10.2 | 51.0 | 21 | 6 | AX004592 | AX004592 Sequence | C 884 | 10.2 | 51.0 | 36 | 6 | AX084763 | AX084763 Sequence |
| C 812 | 10.2 | 51.0 | 21 | 6 | AX094928 | AX094928 Sequence | C 885 | 10.2 | 51.0 | 36 | 6 | AX278218 | AX278218 Sequence |
| C 813 | 10.2 | 51.0 | 21 | 6 | AX235400 | AX235400 Sequence | C 886 | 10.2 | 51.0 | 36 | 6 | AX282698 | AX282698 Sequence |
| C 814 | 10.2 | 51.0 | 21 | 6 | E31525 | E31525 Novel prote | C 887 | 10.2 | 51.0 | 36 | 6 | AX317737 | AX317737 Sequence |
| C 815 | 10.2 | 51.0 | 21 | 6 | I13853 | I13853 Sequence 61 | C 888 | 10.2 | 51.0 | 37 | 6 | AR091833 | AR091833 Sequence |
| C 816 | 10.2 | 51.0 | 22 | 6 | A94072 | A94072 Sequence 53 | C 889 | 10.2 | 51.0 | 37 | 6 | ARI57741 | ARI57741 Sequence |
| C 817 | 10.2 | 51.0 | 22 | 6 | AX011157 | AX011157 Sequence | C 890 | 10.2 | 51.0 | 38 | 6 | AR059301 | AR059301 Sequence |
| C 818 | 10.2 | 51.0 | 22 | 6 | AX016308 | AX016308 Sequence | C 891 | 10.2 | 51.0 | 38 | 6 | AX220402 | AX220402 Sequence |
| C 819 | 10.2 | 51.0 | 23 | 6 | A97073 | A97073 Sequence 24 | C 892 | 10.2 | 51.0 | 40 | 6 | ARI74929 | ARI74929 Sequence |
| C 820 | 10.2 | 51.0 | 23 | 6 | AX250153 | AX250153 Sequence | C 893 | 10.2 | 51.0 | 40 | 6 | AX084764 | AX084764 Sequence |
| C 821 | 10.2 | 51.0 | 24 | 6 | A94696 | A94696 Sequence 8 | C 894 | 10.2 | 51.0 | 40 | 6 | AX278219 | AX278219 Sequence |
| C 822 | 10.2 | 51.0 | 24 | 6 | ARI172443 | ARI172443 Sequence | C 895 | 10.2 | 51.0 | 41 | 6 | AX282699 | AX282699 Sequence |
| C 823 | 10.2 | 51.0 | 24 | 6 | ARI172478 | ARI172478 Sequence | C 896 | 10.2 | 51.0 | 41 | 6 | AX278215 | AX278215 Sequence |
| C 824 | 10.2 | 51.0 | 24 | 6 | ARI172479 | ARI172479 Sequence | C 897 | 10.2 | 51.0 | 42 | 6 | A38382 | A38382 Sequence |
| C 825 | 10.2 | 51.0 | 24 | 6 | AX002237 | AX002237 Sequence | C 898 | 10.2 | 51.0 | 42 | 6 | AX114246 | AX114246 Sequence |
| C 826 | 10.2 | 51.0 | 24 | 6 | AX288351 | AX288351 Sequence | C 899 | 10.2 | 51.0 | 42 | 6 | I74384 | I74384 Sequence |
| C 827 | 10.2 | 51.0 | 24 | 6 | AX288356 | AX288356 Sequence | C 900 | 10.2 | 51.0 | 42 | 9 | HSEHL3FE5B | HSEHL3FE5B |
| C 828 | 10.2 | 51.0 | 24 | 6 | AX288652 | AX288652 Sequence | C 901 | 10.2 | 51.0 | 42 | 9 | HUMTCVCJ41 | HUMTCVCJ41 |
| C 829 | 10.2 | 51.0 | 24 | 6 | BD008270 | BD008270 Nucleus 1 | C 902 | 10.2 | 51.0 | 44 | 6 | CCAA27088 | CCAA27088 |
| C 830 | 10.2 | 51.0 | 25 | 6 | A40454 | A40454 Sequence 3 | C 903 | 10.2 | 51.0 | 44 | 6 | BD002244 | BD002244 |
| C 831 | 10.2 | 51.0 | 25 | 6 | A42005 | A42005 Sequence 1 | C 904 | 10.2 | 51.0 | 44 | 9 | HS4249322 | HS4249322 |
| C 832 | 10.2 | 51.0 | 25 | 6 | ARI177414 | ARI177414 Sequence | C 905 | 10.2 | 51.0 | 44 | 9 | HUMHMB3507 | HUMHMB3507 |
| C 833 | 10.2 | 51.0 | 25 | 6 | AX196841 | AX196841 Sequence | C 906 | 10.2 | 51.0 | 45 | 6 | AR083208 | AR083208 |
| C 834 | 10.2 | 51.0 | 25 | 6 | I88183 | I88183 Sequence 42 | C 907 | 10.2 | 51.0 | 45 | 6 | E05342 | E05342 |
| C 835 | 10.2 | 51.0 | 25 | 9 | S80833 | S80833 gamma delta | C 908 | 10.2 | 51.0 | 45 | 10 | MMTCRVB3 | MMTCRVB3 |
| C 836 | 10.2 | 51.0 | 26 | 6 | AX350721 | AX350721 Sequence | C 909 | 10.2 | 51.0 | 46 | 6 | AR082249 | AR082249 |
| C 837 | 10.2 | 51.0 | 26 | 6 | AX350724 | AX350724 Sequence | C 910 | 10.2 | 51.0 | 46 | 6 | AR082272 | AR082272 |
| C 838 | 10.2 | 51.0 | 26 | 6 | AX350727 | AX350727 Sequence | C 911 | 10.2 | 51.0 | 46 | 6 | ARI16995 | ARI16995 |
| C 839 | 10.2 | 51.0 | 27 | 6 | ARI02950 | ARI02950 Sequence | C 912 | 10.2 | 51.0 | 46 | 6 | ARI20791 | ARI20791 Sequence |
| C 840 | 10.2 | 51.0 | 27 | 6 | ARI09653 | ARI09653 Sequence | C 913 | 10.2 | 51.0 | 46 | 6 | ARI20814 | ARI20814 Sequence |
| C 841 | 10.2 | 51.0 | 27 | 6 | ARI18752 | ARI18752 Sequence | C 914 | 10.2 | 51.0 | 46 | 6 | I78295 | I78295 Sequence |
| C 842 | 10.2 | 51.0 | 27 | 6 | ARI19596 | ARI19596 Sequence | C 915 | 10.2 | 51.0 | 46 | 6 | I78318 | I78318 Sequence |
| C 843 | 10.2 | 51.0 | 27 | 6 | I06384 | I06384 Sequence 4 | C 916 | 10.2 | 51.0 | 48 | 6 | AX221809 | AX221809 |
| C 844 | 10.2 | 51.0 | 27 | 12 | SYNANVAR | M60095 Avian neov1 | C 917 | 10.2 | 51.0 | 48 | 6 | AX223563 | AX223563 |
| C 845 | 10.2 | 51.0 | 28 | 6 | ARI18755 | ARI18755 Sequence | C 918 | 10.2 | 51.0 | 49 | 6 | HS4249314 | HS4249314 |
| C 846 | 10.2 | 51.0 | 28 | 6 | I06387 | I06387 Sequence 7 | C 919 | 10.2 | 51.0 | 49 | 10 | MUSJCHD6 | MUSJCHD6 |
| C 847 | 10.2 | 51.0 | 30 | 6 | AR024309 | AR024309 Sequence | C 920 | 10.2 | 51.0 | 50 | 6 | AR032810 | AR032810 |
| C 848 | 10.2 | 51.0 | 30 | 6 | AR045162 | AR045162 Sequence | C 921 | 10.2 | 51.0 | 50 | 6 | AR032868 | AR032868 |
| C 849 | 10.2 | 51.0 | 30 | 6 | ARI09716 | ARI09716 Sequence | C 922 | 10.2 | 51.0 | 50 | 6 | AR032947 | AR032947 |
| C 850 | 10.2 | 51.0 | 30 | 6 | BD011386 | BD011386 Chimeric | C 923 | 10.2 | 51.0 | 50 | 6 | AR032948 | AR032948 |
| C 851 | 10.2 | 51.0 | 30 | 6 | E43856 | E43856 Chimeric an | C 924 | 10.2 | 51.0 | 50 | 6 | AR032964 | AR032964 |
| C 852 | 10.2 | 51.0 | 30 | 6 | I77043 | I77043 Sequence 26 | C 925 | 10.2 | 51.0 | 50 | 6 | AX156785 | AX156785 |
| C 853 | 10.2 | 51.0 | 31 | 6 | AR084484 | AR084484 Sequence | C 926 | 10.2 | 51.0 | 50 | 6 | AX157240 | AX157240 |
| C 854 | 10.2 | 51.0 | 31 | 6 | ARI172383 | ARI172383 Sequence | C 927 | 10.2 | 51.0 | 50 | 6 | AX151780 | AX151780 |
| C 855 | 10.2 | 51.0 | 32 | 6 | A68973 | A68973 Sequence 45 | C 928 | 10.2 | 51.0 | 50 | 6 | AX187328 | AX187328 |
| C 856 | 10.2 | 51.0 | 32 | 6 | ARI39199 | ARI39199 Sequence | C 929 | 10.2 | 51.0 | 50 | 6 | I29550 | I29550 |
| C 857 | 10.2 | 51.0 | 32 | 6 | BD006086 | BD006086 Polynucle | C 930 | 10.2 | 51.0 | 50 | 6 | I29608 | I29608 |
| C 858 | 10.2 | 51.0 | 33 | 6 | AR003765 | AR003765 Sequence | C 931 | 10.2 | 51.0 | 50 | 6 | I29687 | I29687 |
| C 859 | 10.2 | 51.0 | 33 | 6 | AR010101 | AR010101 Sequence | C 932 | 10.2 | 51.0 | 50 | 6 | I29688 | I29688 |
| C 860 | 10.2 | 51.0 | 33 | 6 | AR055307 | AR055307 Sequence | C 933 | 10.2 | 51.0 | 50 | 6 | I29704 | I29704 |
| C 861 | 10.2 | 51.0 | 33 | 6 | ARI14236 | ARI14236 Sequence | C 934 | 10.2 | 51.0 | 50 | 6 | I91224 | I91224 |
| C 862 | 10.2 | 51.0 | 33 | 6 | ARI141473 | ARI141473 Sequence | C 935 | 10.2 | 51.0 | 50 | 6 | I91282 | I91282 |
| C 863 | 10.2 | 51.0 | 33 | 6 | ARI176214 | ARI176214 Sequence | C 936 | 10.2 | 51.0 | 50 | 6 | I91361 | I91361 |
| C 864 | 10.2 | 51.0 | 33 | 6 | AX003186 | AX003186 Sequence | C 937 | 10.2 | 51.0 | 50 | 6 | I91362 | I91362 |
| C 865 | 10.2 | 51.0 | 33 | 6 | I11946 | I11946 Sequence 55 | C 938 | 10.2 | 51.0 | 50 | 6 | I91378 | I91378 |
| C 866 | 10.2 | 51.0 | 33 | 6 | I40518 | I40518 Sequence 55 | C 939 | 10.2 | 51.0 | 50 | 6 | AF204722 | AF204722 |
| C 867 | 10.2 | 51.0 | 34 | 9 | S80847 | S80847 gamma delta | C 940 | 10.2 | 51.0 | 50 | 9 | HSIEF3ID5 | HSIEF3ID5 |
| C 868 | 10.2 | 51.0 | 34 | 9 | S80849 | S80849 gamma delta | C 941 | 10.2 | 51.0 | 51 | 6 | AR032811 | AR032811 |
| C 869 | 10.2 | 51.0 | 34 | 9 | S80851 | S80851 gamma delta | C 942 | 10.2 | 51.0 | 51 | 6 | AX118461 | AX118461 |
| C 870 | 10.2 | 51.0 | 35 | 6 | A62590 | A62590 Sequence 9 | C 943 | 10.2 | 51.0 | 51 | 6 | AX156786 | AX156786 |
| C 871 | 10.2 | 51.0 | 35 | 6 | AR024283 | AR024283 Sequence | C 944 | 10.2 | 51.0 | 51 | 6 | AX157239 | AX157239 |
| C 872 | 10.2 | 51.0 | 35 | 6 | AR024286 | AR024286 Sequence | C 945 | 10.2 | 51.0 | 51 | 6 | AX158073 | AX158073 |
| C 873 | 10.2 | 51.0 | 35 | 6 | AR026945 | AR026945 Sequence | C 946 | 10.2 | 51.0 | 51 | 6 | AX158257 | AX158257 |
| C 874 | 10.2 | 51.0 | 35 | 6 | AR045136 | AR045136 Sequence | C 947 | 10.2 | 51.0 | 51 | 6 | AX158258 | AX158258 |
| C 875 | 10.2 | 51.0 | 35 | 6 | AR045139 | AR045139 Sequence | C 948 | 10.2 | 51.0 | 51 | 6 | AX158556 | AX158556 |
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c 952 10.2 51.0 51 6 AX165423 Sequence
c 953 10.2 51.0 51 6 AX165620 Sequence
c 954 10.2 51.0 51 6 AX184387 Sequence
c 955 10.2 51.0 51 6 AX187247 Sequence
c 956 10.2 51.0 51 6 AX187551 Sequence
c 957 10.2 51.0 51 6 AF043876 Sequence
c 958 10.2 51.0 51 10 U92140 Mus musculus
c 959 10.2 51.0 52 9 HUMHMB517
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c 961 10.2 51.0 53 6 AX008534 Sequence
c 962 10.2 51.0 53 6 BD001931 S-Hydroxy
c 963 10.2 51.0 54 6 AR040530 Sequence
c 964 10.2 51.0 54 6 AF305509 Homo sapi
c 965 10.2 51.0 55 6 AX184535 Sequence
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c 968 10.2 51.0 57 12 SYNPOLMUTR
c 969 10.2 51.0 59 6 AR059299 Sequence
c 970 10.2 51.0 61 6 AR174579 Sequence
c 971 10.2 51.0 61 6 AX280181 Sequence
c 972 10.2 51.0 62 6 AR174578 Sequence
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c 974 10.2 51.0 63 6 AF366504 Homo sapi
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c 977 10.2 51.0 66 9 HUMTCCVJ12
c 978 10.2 51.0 66 9 L39479 Homo sapien
c 979 10.2 51.0 69 6 I21489 Sequence
c 980 10.2 51.0 69 6 I21491 Sequence
c 981 10.2 51.0 69 6 I21492 Sequence
c 982 10.2 51.0 70 9 G38355
c 983 10.2 51.0 70 9 AF165256
c 984 10.2 51.0 71 14 AR165773
c 985 10.2 51.0 71 9 AR165773
c 986 10.2 51.0 71 9 HUMHLA35C
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c 990 10.2 51.0 71 9 HUMHLA35B
c 991 10.2 51.0 71 10 AF357335
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c 994 10.2 51.0 74 6 I88185
c 995 10.2 51.0 75 6 I88179
c 996 10.2 51.0 77 6 AX337726
c 997 10.2 51.0 78 3 HA28SRNAB
c 998 10.2 51.0 79 6 I13473
c 999 10.2 51.0 79 10 S64372
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ALIGNMENTS

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RESULT 1
AX053077 20 bp DNA
LOCUS AX053077 1 from Patent WO0071703
DEFINITION AX053077
ACCESSION AX053077.1 GI:12227143
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 1 30-NOV-2000;
Methylene, Inc. (CA)
FEATURES
Source Location/Qualifiers
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/feature="synthetic oligonucleotide"
BASE COUNT 7 a 4 c 7 g 2 t
ORIGIN

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QY 1 gaacgtgagggactcagca 20
DB 1 GAACGTGAGGACTCAGCA 20

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RESULT 2

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AX053086 20 bp DNA
LOCUS AX053086 10 from Patent WO0071703.
DEFINITION AX053086
ACCESSION AX053086
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 10 30-NOV-2000;
Methylene, Inc. (CA)
FEATURES
Source Location/Qualifiers
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/db_xref="taxon:32630"
/feature="synthetic oligonucleotide"
BASE COUNT 7 a 4 c 7 g 2 t
ORIGIN

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QY 1 gaacgtgagggactcagca 20
DB 1 GAACGTGAGGACTCAGCA 20

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RESULT 3
S47737 87 bp RNA linear MAM 08-MAY-1993
LOCUS S47737
DEFINITION Bots-MHC class I antigen (D19.3, exons 6-7-8) [Bos taurus-cattle,
Frisonian Holstein, Theliera annulata-transformed cell line,
pre-mRNA Partial, 87 nt].
ACCESSION S47737
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1
AUTHORS Ellis,S.A., Braem,K.A. and Morrison,W.I.
TITLE Transmembrane and cytoplasmic domain sequences demonstrate at least
two expressed bovine MHC class I loci
JOURNAL Immunogenetics 37 (1), 49-56 (1992)
MEDLINE 93052564
REMARK GenBank staff at the National Library of Medicine created this
entry [NCBI g1bbsq 117326] from the original journal article.

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This sequence comes from Fig. 3a.

FEATURES

source

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/organism="Bos taurus"
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gene

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/partial
/gene="Bota"

CDS

1..87
/note="MHC class I antigen"
/partial
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/codon_start=1

/protein_id="AAB23971.1"

/db_xref="GI:258898"

ASE COUNT 22 a 21 c 25 g 19 t
RIGIN

Query Match

Best Local Similarity 68.0%; Score 13.6; DB 4; Length 87;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 gaacgtgaggactcagca 20
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Db 76 GACCGTGAGACACATCA 57

RESULT 4

AX207002/c

LOCUS AX207002 20 bp DNA linear PAT 30-AUG-2001

DEFINITION Sequence 25 from Patent WO0155214.

ACCESSION AX207002

VERSION AX207002.1 GI:15394770

KEYWORDS

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 20)

AUTHORS Whitaker, P.A., Jones, S.J. and Hanley, M.T.

TITLE Disease-associated gene

JOURNAL Patent: WO 0155214-A 25 02-AUG-2001;

FEATURES Location/Qualifiers

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BASE COUNT 2 a 7 c 6 g 5 t

ORIGIN

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Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 acgtgaggactcag 18
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Db 15 ACCTGAGGACTCAG 1

RESULT 5

AX006399/c

LOCUS AX006399 24 bp DNA linear PAT 06-SEP-2000

DEFINITION Sequence 15 from Patent WO0004174.

ACCESSION AX006399

VERSION AX006399.1 GI:9994546

KEYWORDS

SOURCE

ORGANISM

synthetic construct.

artificial sequence.

REFERENCE 1 (bases 1 to 24)

AUTHORS Mengiste, T. and Paszkowski, J.

TITLE Recombination repair gene, mim, from Arabidopsis thaliana

JOURNAL Patent: WO 0004174-A 15 27-JAN-2000;

NOVARTIS ERFINDUNGEN VERMALTEN (AT); NOVARTIS AG (CH); MENGISTE

TESFAYE (CH); PASZKOWSKI JERZY (CH)

LOCATION/Qualifiers

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/db_xref="taxon:32630"

BASE COUNT 3 a 10 c 7 g 4 t

ORIGIN

Query Match

Best Local Similarity 67.0%; Score 13.4; DB 6; Length 24;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 cgtgaggactcagc 19
|| ||||| ||| |||

Db 23 CGAGAGGACTCAGC 9

RESULT 6

AX162033/c

LOCUS AX162033 51 bp DNA linear PAT 22-JUN-2001

DEFINITION Sequence 5361 from Patent WO0140521.

ACCESSION AX162033

VERSION AX162033.1 GI:14543364

KEYWORDS

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 51)

AUTHORS Shimkets, R.A. and Leach, M.

TITLE Nucleic acids containing single nucleotide polymorphisms and

methods of use thereof

JOURNAL Patent: WO 0140521-A 5361 07-JUN-2001;

FEATURES Location/Qualifiers

1..51

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misc-feature

Accession number CG43995762"

BASE COUNT 9 a 18 c 11 g 13 t

ORIGIN

Query Match

Best Local Similarity 66.0%; Score 13.2; DB 6; Length 51;

Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 3 aacgtgaggactcagca 20
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Db 42 AATGTTAGGAGCCAGCA 25

RESULT 7

SYNPHSIA

LOCUS SYNPHSIA 91 bp DNA circular SYN 27-APR-1993

DEFINITION Plasmid PHS1 integration site for transposon Tn3#2.

ACCESSION M10912

VERSION M10912.1 GI:209011

KEYWORDS

SOURCE

ORGANISM

plasmid PHS1 DNA.

synthetic construct.

artificial sequence.

REFERENCE 1 (bases 1 to 91)

AUTHORS McCormick, M. and Ohtsubo, E.

TITLE Colintegrates carrying two copies of a Tn3 derivative in an inverted orientation
JOURNAL Gene 34, 197-206 (1984)
MEDLINE 85232065
FEATURES Location/Qualifiers
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 /db_xref="taxon:32630"
BASE COUNT 23 a 28 c 27 g 13 t
ORIGIN Unreported.

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Best Local Similarity 83.3%; Pred. No. 1.5e+04;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 3 aacgtgaggactcaaga 20
 ||||| | ||||| | |
Db 13 AACGTCACGACTCAGAA 30

RESULT 8
SYNPHSIB
LOCUS SYNPHSIB 95 bp DNA circular SYN 27-APR-1993
DEFINITION Plasmid pHS1/Tn32 3' junction (sequence C).
ACCESSION M19080
VERSION M19080.1 GI:207817
KEYWORDS
SOURCE Transposon Tn3 and plasmid pHS1 DNA, clone PMM2-32.
ORGANISM synthetic construct
AUTHORS 1 (bases 1 to 95)
TITLE McCormick, M. and Ohtsubo, E.
 Colintegrates carrying two copies of a Tn3 derivative in an inverted orientation
JOURNAL Gene 34, 197-206 (1984)
MEDLINE 85232065
FEATURES Location/Qualifiers
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BASE COUNT 23 a 25 c 26 g 21 t
ORIGIN Unreported.

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Db 13 AACGTCACGACTCAGAA 30

RESULT 9
AX159596
LOCUS AX159596 51 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 2924 from Patent WO0140521.
ACCESSION AX159596
VERSION AX159596.1 GI:14540927
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 51)
AUTHORS Shinkens, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0140521-A 2924 07-JUN-2001;
 Curegen Corporation (US)
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ORIGIN Accession number CG42667019"

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Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 gaacgtgaggactc 16
 ||||| | ||||| | |
Db 15 GAACGCTGAAGGCTC 30

RESULT 10
AR066918
LOCUS AR066918 22 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 266 from patent US 5851760.
ACCESSION AR066918
VERSION AR066918.1 GI:5998140
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
AUTHORS Unclassified.
TITLE 1 (bases 1 to 22)
 Evans, G.A. and Smith, M.W.
JOURNAL Method for generation of sequence sampled maps of complex genomes
 Patent: US 5851760-A 266 22-DEC-1998;
FEATURES Location/Qualifiers
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BASE COUNT 8 a 4 c 8 g 2 t
ORIGIN

Query Match 63.0%; Score 12.6; DB 6; Length 22;
Best Local Similarity 78.9%; Pred. No. 3.5e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 4 GAAGCAAGAGGAGGTCAGC 22

RESULT 11
AX288386
LOCUS AX288386 24 bp DNA linear PAT 21-NOV-2001
DEFINITION Sequence 148 from Patent WO0179548.
ACCESSION AX288386
VERSION AX288386.1 GI:17050069
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
 artificial sequence.
REFERENCE 1 (sites)
AUTHORS Barany, F., Ziliv, M., Gerry, N.P., Favis, R. and Kliman, R.
TITLE Method of designing addressable array for detection of nucleic acid sequence differences using ligase detection reaction
JOURNAL Patent: WO 0179548-A 148 25-OCT-2001;
 CORNELL RESEARCH FOUNDATION, INC. (US)
FEATURES Location/Qualifiers
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 /note="Hypothetical Probe Sequence"
BASE COUNT 6 a 6 c 8 g 4 t
ORIGIN

Fri Jul 19 08:31:17 2002

us-09-817-538-17.rge

Page 12

Search completed: July 19, 2002, 02:42:58
Job time: 8334 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 01:24:09 ; Search time 369.17 Seconds

(Without alignments)
93.015 Million cell updates/sec

Title: US-09-817-538-17

Perfect score: 20

Sequence: 1 gaacgtgaggtacacga 20

Scoring table: IDENTITY_NUC

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Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 2046006

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 20 | 100.0 | 20 | 22 | AAU20115 Human histone deac |
| 3 | 20 | 100.0 | 20 | 22 | AAH43111 Antisense oligo, t |
| 4 | 20 | 100.0 | 20 | 22 | AAAC89531 Human HDAC-1 PCR p |
| 5 | 20 | 100.0 | 20 | 22 | AAAC89540 Human HDAC-1 antis |
| 6 | 14.2 | 71.0 | 49 | 18 | AAAT80511 Heptoma AS-30D ty |
| 7 | 14.2 | 71.0 | 49 | 22 | AAH76167 Plasmid pAMVBR4 co |
| 8 | 14.2 | 71.0 | 52 | 22 | AAH76160 Plasmid pAMVBR4 co |
| 9 | 14.2 | 71.0 | 52 | 22 | AAH76163 Plasmid pAMVBR4 co |

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| 10 | 14.2 | 71.0 | 52 | 22 | AAH76164 Plasmid pAMVBR4 co |
| 11 | 13.8 | 69.0 | 40 | 22 | AAH76168 Plasmid pAMVBR4 co |
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| 14 | 13.2 | 66.0 | 24 | 21 | AAI78420 Human silent SNP c |
| 15 | 13 | 65.0 | 34 | 10 | AAAN91262 'C-terminal hookup |
| 16 | 12.8 | 64.0 | 20 | 20 | AAV99196 Antisense primer f |
| 17 | 12.8 | 64.0 | 29 | 21 | AAAO3858 Polymorphic fragme |
| 18 | 12.8 | 64.0 | 51 | 22 | AAI32496 Human SNP oligonc |
| 19 | 12.8 | 64.0 | 51 | 22 | AAI75983 Human silent SNP c |
| 20 | 12.8 | 64.0 | 52 | 21 | AAAC11247 Human secreted pro |
| 21 | 12.6 | 63.0 | 22 | 16 | AAO82266 Chromosome 11 (loc |
| 22 | 12.6 | 63.0 | 24 | 24 | AB182692 Capture oligonucle |
| 23 | 12.6 | 63.0 | 24 | 24 | AB182693 Capture oligonucle |
| 24 | 12.6 | 63.0 | 24 | 24 | AB186558 Capture oligonucle |
| 25 | 12.6 | 63.0 | 24 | 24 | AB186559 Capture oligonucle |
| 26 | 12.6 | 63.0 | 24 | 24 | AB191958 Capture oligonucle |
| 27 | 12.6 | 63.0 | 24 | 24 | AB191959 Capture oligonucle |
| 28 | 12.6 | 63.0 | 34 | 22 | AAE89874 PCR primer used to |
| 29 | 12.6 | 63.0 | 34 | 22 | AAE89875 PCR primer used to |
| 30 | 12.6 | 63.0 | 35 | 17 | AAI14263 Primer #2 for huma |
| 31 | 12.6 | 63.0 | 49 | 18 | AAI60413 Human VL gene prim |
| 32 | 12.6 | 63.0 | 51 | 22 | AAI75344 Human silent SNP c |
| 33 | 12.6 | 63.0 | 52 | 17 | AAI79601 Capture extender 7 |
| 34 | 12.6 | 63.0 | 64 | 13 | AAQ32642 TNF analogue cloni |
| 35 | 12.6 | 63.0 | 70 | 21 | AAAC53895 Arabidopsis thalia |
| 36 | 12.6 | 63.0 | 73 | 22 | AAAS3697 Corneodesmosin sin |
| 37 | 12.6 | 63.0 | 83 | 22 | AAAS3699 Corneodesmosin sin |
| 38 | 12.6 | 63.0 | 89 | 22 | ABA73971 Human foetal liver |
| 39 | 12.6 | 63.0 | 89 | 22 | AAK22424 Human brain expres |
| 40 | 12.6 | 63.0 | 89 | 22 | AAK48591 Human bone marrow |
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| 42 | 12.4 | 62.0 | 15 | 22 | AAE52624 IGF-1 oligonucleot |
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| 46 | 12.4 | 62.0 | 19 | 25 | AAO68559 Primer for amplify |
| 47 | 12.4 | 62.0 | 32 | 15 | AAO68558 Primer for amplify |
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| 49 | 12.4 | 62.0 | 47 | 23 | AAH88293 Human silent SNP c |
| 50 | 12.4 | 62.0 | 51 | 22 | AAI74514 Primer 6 for const |
| 51 | 12.2 | 61.0 | 28 | 18 | AAAT62403 PCR primer used to |
| 52 | 12.2 | 61.0 | 31 | 21 | AAAT45390 Steroid-21-hydroxy |
| 53 | 12.2 | 61.0 | 33 | 15 | AAO73171 Cattle alpha-S1 ca |
| 54 | 12.2 | 61.0 | 40 | 18 | AAE50867 Brascia sp. polym |
| 55 | 12.2 | 61.0 | 41 | 15 | AAO70946 GAD65 153 gene spec |
| 56 | 12.2 | 61.0 | 73 | 22 | AAAS3698 Corneodesmosin sin |
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| 58 | 12 | 60.0 | 27 | 22 | AAI12174 Human potassium io |
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| 62 | 12 | 60.0 | 32 | 20 | AAV34585 M. vaccae antigen |
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| 64 | 12 | 60.0 | 38 | 17 | AAI78211 HHP-1 polymorphic |
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| 67 | 12 | 60.0 | 38 | 19 | AAV69917 ASR-2 gene promote |
| 68 | 12 | 60.0 | 38 | 19 | AAV69918 ASR-2 gene promote |
| 69 | 12 | 60.0 | 38 | 19 | AAV69918 ASR-2 gene promote |
| 70 | 12 | 60.0 | 38 | 19 | AAV69918 ASR-2 gene promote |
| 71 | 12 | 60.0 | 40 | 21 | AAE65120 Nucleotide sequenc |
| 72 | 12 | 60.0 | 40 | 21 | AAE65120 Probe specific for |
| 73 | 12 | 60.0 | 40 | 21 | AAE65120 Human PRO180 hybr |
| 74 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 75 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 76 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 77 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 78 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 79 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 80 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 81 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |
| 82 | 12 | 60.0 | 51 | 22 | AAI28319 Human SNP oligonc |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|---------------------|-------|------|------|----|----|-----------|-----------------------|
| 83 | 12 | 60.0 | 81 | 17 | AAAT0733 | DNA encoding fragm | c 156 | 11.6 | 58.0 | 34 | 21 | AAA92430 | MABL-1 L chain V r |
| 84 | 12 | 60.0 | 83 | 22 | ABAT0307 | Human foetal liver | c 157 | 11.6 | 58.0 | 34 | 22 | AAAT84271 | Poly-3-hydroxybuty |
| 85 | 12 | 60.0 | 83 | 22 | AAK18537 | Human brain expres | c 158 | 11.6 | 58.0 | 34 | 22 | AAAT8136 | PCR primer used to |
| 86 | 12 | 60.0 | 83 | 22 | AAK44454 | Human bone marrow | c 159 | 11.6 | 58.0 | 34 | 24 | ABAT04511 | PCR primer M1AS. |
| 87 | 12 | 60.0 | 83 | 22 | AAI24873 | Probe #14806 for g | c 160 | 11.6 | 58.0 | 38 | 20 | AAI20581 | PCR primer used to |
| 88 | 12 | 60.0 | 83 | 22 | AAI50447 | Probe #19133 used | c 161 | 11.6 | 58.0 | 38 | 22 | AAAT62391 | Bacillus maltogeni |
| 89 | 12 | 60.0 | 84 | 11 | AAO05636 | Probe for an allele | c 162 | 11.6 | 58.0 | 38 | 22 | AAAT77167 | Primer F188E. Bac |
| 90 | 12 | 60.0 | 86 | 16 | AAAT00362 | Family 4 bFGF DNA | c 163 | 11.6 | 58.0 | 39 | 19 | AAAT77167 | Primer F188E. Bac |
| 91 | 12 | 60.0 | 86 | 22 | ABAT09448 | bFGF DNA ligand #8 | c 164 | 11.6 | 58.0 | 39 | 21 | AAAT86311 | Mouse light chain |
| 92 | 12 | 60.0 | 87 | 22 | ABAT95559 | Human breast cell | c 165 | 11.6 | 58.0 | 41 | 21 | AAAT73451 | Single base extens |
| 93 | 12 | 60.0 | 87 | 22 | ABAT67467 | Human foetal liver | c 166 | 11.6 | 58.0 | 44 | 22 | AAAT89696 | Probe used to iden |
| 94 | 12 | 60.0 | 87 | 22 | ABAT34546 | Probe #13012 for g | c 167 | 11.6 | 58.0 | 47 | 21 | AAAT65837 | Human map-related |
| 95 | 12 | 60.0 | 87 | 22 | AAK15895 | Human brain expres | c 168 | 11.6 | 58.0 | 47 | 24 | AAAT63811 | Arabidopsis antisense |
| 96 | 12 | 60.0 | 87 | 22 | AAK1641 | Human bone marrow | c 169 | 11.6 | 58.0 | 50 | 15 | AAAT55177 | Probe for AOX1 gen |
| 97 | 12 | 60.0 | 87 | 22 | AAI22391 | Probe #12324 for g | c 170 | 11.6 | 58.0 | 50 | 22 | AAAT29233 | Human SNP oligonuc |
| 98 | 12 | 60.0 | 87 | 22 | AAI47683 | Probe #16369 used | c 171 | 11.6 | 58.0 | 50 | 22 | AAAT29663 | Human SNP oligonuc |
| 99 | 12 | 60.0 | 87 | 22 | AAI08077 | Probe #8068 used t | c 172 | 11.6 | 58.0 | 50 | 22 | AAAT30715 | Human SNP oligonuc |
| 100 | 12 | 60.0 | 93 | 22 | ABAT59899 | Human foetal liver | c 173 | 11.6 | 58.0 | 50 | 22 | AAAT30716 | Human SNP oligonuc |
| 101 | 12 | 60.0 | 93 | 22 | ABAT67534 | Probe #15220 for g | c 174 | 11.6 | 58.0 | 51 | 22 | AAAT27787 | Human SNP oligonuc |
| 102 | 12 | 60.0 | 93 | 22 | AAK18100 | Human brain expres | c 175 | 11.6 | 58.0 | 51 | 22 | AAAT29183 | Human SNP oligonuc |
| 103 | 12 | 60.0 | 93 | 22 | AAK43989 | Human bone marrow | c 176 | 11.6 | 58.0 | 51 | 22 | AAAT29664 | Human SNP oligonuc |
| 104 | 12 | 60.0 | 93 | 22 | AAI24678 | Probe #14611 for g | c 177 | 11.6 | 58.0 | 51 | 22 | AAAT78421 | Human silent SNP c |
| 105 | 12 | 60.0 | 93 | 22 | AAI49999 | Probe #18685 used | c 178 | 11.6 | 58.0 | 51 | 22 | AAAT39984 | Human SNP flanking |
| c 106 | 11.8 | 59.0 | 17 | 17 | AAAT63915 | Rabbit streptomycin | c 179 | 11.6 | 58.0 | 65 | 16 | AAAT05264 | Primer J for codon |
| c 107 | 11.8 | 59.0 | 17 | 18 | AAAT69600 | Human fli1 VEGF re | c 180 | 11.6 | 58.0 | 65 | 19 | AAAT62073 | Bt toxin PCR prime |
| c 108 | 11.8 | 59.0 | 20 | 18 | AAAT03703 | Primer SHF-16 for | c 181 | 11.6 | 58.0 | 69 | 21 | AAAT82378 | Human amyloid beta |
| c 109 | 11.8 | 59.0 | 20 | 18 | AAAT82255 | Anti-human Fas ant | c 182 | 11.6 | 58.0 | 94 | 21 | AAAT6740 | Human secreted pro |
| c 110 | 11.8 | 59.0 | 25 | 16 | AAAT87803 | Probe for detectin | c 183 | 11.6 | 58.0 | 94 | 22 | AAAT82737 | Human polynucleoti |
| c 111 | 11.8 | 59.0 | 26 | 18 | AAAT89100 | E. coli serotype 0 | c 184 | 11.6 | 58.0 | 95 | 22 | AAAT20232 | Synthetic oligo CM |
| c 112 | 11.8 | 59.0 | 28 | 21 | AAAT64548 | PCR primer used to | c 185 | 11.6 | 58.0 | 95 | 22 | AAAT20233 | Synthetic oligo CM |
| c 113 | 11.8 | 59.0 | 32 | 24 | AAAT59841 | CAAT box-like bind | c 186 | 11.6 | 58.0 | 99 | 22 | AAAT16604 | Human secreted pro |
| c 114 | 11.8 | 59.0 | 32 | 24 | AAAT59866 | CAAT box-like bind | c 187 | 11.6 | 58.0 | 99 | 21 | AAAT0614 | Human foetal liver |
| c 115 | 11.8 | 59.0 | 32 | 24 | AAAT59875 | CAAT box-like bind | c 188 | 11.6 | 58.0 | 99 | 22 | AAAT18860 | Human brain expres |
| c 116 | 11.8 | 59.0 | 32 | 24 | AAAT59887 | AP2-similar factor | c 189 | 11.6 | 58.0 | 99 | 22 | AAAT44803 | Human bone marrow |
| c 117 | 11.8 | 59.0 | 33 | 17 | AAAT10496 | BCR oncogene exon | c 190 | 11.6 | 58.0 | 99 | 22 | AAAT50780 | Probe #19466 used |
| c 118 | 11.8 | 59.0 | 33 | 20 | AAAT1407 | Primer 2C13814 for | c 191 | 11.4 | 57.0 | 15 | 22 | AAAT52628 | IGF-1 oligonucleot |
| c 119 | 11.8 | 59.0 | 36 | 17 | AAAT18683 | Human tropinulin ex | c 192 | 11.4 | 57.0 | 15 | 22 | AAAT52628 | IGF-1 oligonucleot |
| c 120 | 11.8 | 59.0 | 36 | 21 | AAAT1973 | PCR primer #6 used | c 193 | 11.4 | 57.0 | 17 | 20 | AAAT92383 | Human A-Rat substr |
| c 121 | 11.8 | 59.0 | 36 | 24 | AAAT22976 | Mouse Zalpha1 rec | c 194 | 11.4 | 57.0 | 19 | 21 | AAAT47587 | Primer for amplifiy |
| c 122 | 11.8 | 59.0 | 41 | 19 | AAAT44062 | NCO-1 gene primer | c 195 | 11.4 | 57.0 | 20 | 19 | AAAT61741 | Hepatitis E virus |
| c 123 | 11.8 | 59.0 | 41 | 20 | AAAT07126 | Dihydrofolate redu | c 196 | 11.4 | 57.0 | 22 | 19 | AAAT72754 | Corn kernel oil co |
| c 124 | 11.8 | 59.0 | 47 | 21 | AAAT66096 | Human map-related | c 197 | 11.4 | 57.0 | 28 | 17 | AAAT30479 | Primer 5'kappa16 f |
| c 125 | 11.8 | 59.0 | 50 | 22 | AAAT31087 | Human SNP oligonuc | c 198 | 11.4 | 57.0 | 29 | 19 | AAAT68356 | Adapter primer oli |
| c 126 | 11.8 | 59.0 | 51 | 15 | AAAT45361 | Human protein-Cyto | c 199 | 11.4 | 57.0 | 30 | 15 | AAAT68356 | Huntingtin DNA pri |
| c 127 | 11.8 | 59.0 | 51 | 22 | AAAT79972 | Human DNA containi | c 200 | 11.4 | 57.0 | 30 | 18 | AAAT97926 | PCR primer 1 used |
| c 128 | 11.8 | 59.0 | 63 | 21 | AAAT11459 | Human secreted pro | c 201 | 11.4 | 57.0 | 30 | 19 | AAAT05829 | 5' primer flanking |
| c 129 | 11.8 | 59.0 | 76 | 15 | AAAT14196 | Human breast cance | c 202 | 11.4 | 57.0 | 31 | 19 | AAAT68357 | Adapter primer oli |
| c 130 | 11.8 | 59.0 | 79 | 15 | AAAT74203 | 3' end fragment of | c 203 | 11.4 | 57.0 | 36 | 21 | AAAT22706 | Human HLA allele a |
| c 131 | 11.6 | 58.0 | 19 | 17 | AAAT36385 | Beta-actin gene ex | c 204 | 11.4 | 57.0 | 39 | 19 | AAAT21517 | HLA-B*35 cDNA anti |
| c 132 | 11.6 | 58.0 | 19 | 18 | AAAT61270 | Beta-actin gene ex | c 205 | 11.4 | 57.0 | 39 | 21 | AAAT63599 | Human map-related |
| c 133 | 11.6 | 58.0 | 19 | 20 | AAAT28051 | Beta-actin gene sp | c 206 | 11.4 | 57.0 | 50 | 22 | AAAT29580 | Human SNP oligonuc |
| c 134 | 11.6 | 58.0 | 19 | 20 | AAAT28053 | Beta-actin gene sp | c 207 | 11.4 | 57.0 | 51 | 22 | AAAT74515 | Human silent SNP c |
| c 135 | 11.6 | 58.0 | 19 | 20 | AAAT33919 | Sense PCR primer u | c 208 | 11.4 | 57.0 | 51 | 22 | AAAT79598 | Human DNA containi |
| c 136 | 11.6 | 58.0 | 19 | 21 | AAAT74513 | beta-actin PCR pri | c 209 | 11.4 | 57.0 | 58 | 19 | AAAT00337 | Bacillus thuringie |
| c 137 | 11.6 | 58.0 | 19 | 21 | AAAT66428 | Dog genomic marker | c 210 | 11.4 | 57.0 | 58 | 22 | AAAT73255 | Oligonucleotide #4 |
| c 138 | 11.6 | 58.0 | 20 | 16 | AAAT86243 | Reverse transcript | c 211 | 11.2 | 56.0 | 17 | 21 | AAAT01886 | Hammerhead ribozym |
| c 139 | 11.6 | 58.0 | 20 | 17 | AAAT60907 | Multi-tumour abeirr | c 212 | 11.2 | 56.0 | 17 | 23 | AAAT02913 | Human CD20 Hammer |
| c 140 | 11.6 | 58.0 | 20 | 22 | AAAT12140 | Rat PTPB antisens | c 213 | 11.2 | 56.0 | 20 | 13 | AAAT02913 | Mutant primer #2 f |
| c 141 | 11.6 | 58.0 | 20 | 22 | AAAT80173 | Primer used to amp | c 214 | 11.2 | 56.0 | 20 | 20 | AAAT92109 | PCR primer used to |
| c 142 | 11.6 | 58.0 | 20 | 22 | AAAT91611 | Human angiotensino | c 215 | 11.2 | 56.0 | 20 | 24 | AAAT95014 | Capture oligonucle |
| c 143 | 11.6 | 58.0 | 21 | 20 | AAAT36762 | PCR primer for hum | c 216 | 11.2 | 56.0 | 21 | 18 | AAAT61866 | Human potassium ch |
| c 144 | 11.6 | 58.0 | 22 | 22 | AAAT85377 | Mutagenic primer # | c 217 | 11.2 | 56.0 | 21 | 20 | AAAT22082 | Type I human galan |
| c 145 | 11.6 | 58.0 | 24 | 22 | AAAT30679 | Primer 7768 for hu | c 218 | 11.2 | 56.0 | 21 | 22 | AAAT05691 | Human zmsel cDNA c |
| c 146 | 11.6 | 58.0 | 24 | 24 | ABAT04926 | Human GAPDH PCR pr | c 219 | 11.2 | 56.0 | 22 | 18 | AAAT63353 | MAGE-3 gene revers |
| c 147 | 11.6 | 58.0 | 25 | 21 | AAAT49053 | PCR primer A for i | c 220 | 11.2 | 56.0 | 22 | 22 | AAAT04484 | Human DAXX gene ex |
| c 148 | 11.6 | 58.0 | 26 | 17 | AAAT44600 | Probe for beta-act | c 221 | 11.2 | 56.0 | 23 | 21 | AAAT76223 | Human beta-actin p |
| c 149 | 11.6 | 58.0 | 28 | 24 | AAAT18374 | RACE-PCR primer MS | c 222 | 11.2 | 56.0 | 24 | 19 | AAAT42846 | Human IkappaB cDNA |
| c 150 | 11.6 | 58.0 | 29 | 21 | AAAT03903 | Polymorphic fragme | c 223 | 11.2 | 56.0 | 24 | 21 | AAAT62224 | Human beta-actin p |
| c 151 | 11.6 | 58.0 | 33 | 16 | AAAT97687 | Endogenous human G | c 224 | 11.2 | 56.0 | 24 | 22 | AAAT62228 | Human beta-actin p |
| c 152 | 11.6 | 58.0 | 34 | 16 | AAAT94487 | Murine antibody ON | c 225 | 11.2 | 56.0 | 25 | 21 | AAAT85703 | Human DPP8 primer |
| c 153 | 11.6 | 58.0 | 34 | 17 | AAAT38602 | Chimeric human/mu | c 226 | 11.2 | 56.0 | 25 | 21 | AAAT43597 | Alzheimer's diseas |
| c 154 | 11.6 | 58.0 | 34 | 19 | AAAT38377 | Humanised anti-HM1 | c 227 | 11.2 | 56.0 | 26 | 17 | AAAT11680 | Primer used in pro |
| c 155 | 11.6 | 58.0 | 34 | 20 | AAAT59427 | Primer used in con | c 228 | 11.2 | 56.0 | 26 | 17 | AAAT09334 | PCR primer SON0031 |

| | | | | | | | | | | | | |
|-------|------|------|----|----|----------|-------|----|------|----|----|-----------|---------------------|
| c 229 | 11.2 | 56.0 | 30 | 6 | AAN50103 | 302 | 11 | 55.0 | 19 | 20 | AAV08143 | Primer Vbeta8 short |
| c 230 | 11.2 | 56.0 | 31 | 20 | AA06476 | c 303 | 11 | 55.0 | 20 | 18 | AAT90278 | Primer for Burkhol |
| c 231 | 11.2 | 56.0 | 32 | 11 | AA06407 | c 304 | 11 | 55.0 | 20 | 22 | AAT92316 | Human ubiquitin-co |
| c 232 | 11.2 | 56.0 | 34 | 17 | AAT58959 | c 305 | 11 | 55.0 | 20 | 22 | AA089549 | Human HDAC-1 misma |
| c 233 | 11.2 | 56.0 | 35 | 18 | AA722150 | c 306 | 11 | 55.0 | 21 | 15 | AA061938 | Human type II phos |
| c 234 | 11.2 | 56.0 | 35 | 20 | AA132789 | c 307 | 11 | 55.0 | 21 | 15 | AA061924 | Human type II phos |
| c 235 | 11.2 | 56.0 | 35 | 21 | AA142272 | c 308 | 11 | 55.0 | 21 | 19 | AA226421 | Human polymorphic |
| c 236 | 11.2 | 56.0 | 35 | 21 | AA14363 | c 309 | 11 | 55.0 | 21 | 19 | AA226421 | Human polymorphic |
| c 237 | 11.2 | 56.0 | 36 | 17 | AA142889 | c 310 | 11 | 55.0 | 21 | 19 | AA226421 | Human polymorphic |
| c 238 | 11.2 | 56.0 | 36 | 19 | AAV22167 | c 311 | 11 | 55.0 | 21 | 20 | AA170050 | Leishmania protozo |
| c 239 | 11.2 | 56.0 | 39 | 16 | AA086272 | c 312 | 11 | 55.0 | 24 | 22 | AAH78717 | PCR primer lambda |
| c 240 | 11.2 | 56.0 | 39 | 20 | AA226966 | c 313 | 11 | 55.0 | 24 | 22 | AB185138 | Human EX33 GPCR RA |
| c 241 | 11.2 | 56.0 | 41 | 15 | AA056317 | c 314 | 11 | 55.0 | 24 | 24 | AB185138 | Capture oligonucle |
| c 242 | 11.2 | 56.0 | 42 | 16 | AA067655 | c 315 | 11 | 55.0 | 24 | 24 | AB190754 | Capture oligonucle |
| c 243 | 11.2 | 56.0 | 42 | 21 | AA062128 | c 320 | 11 | 55.0 | 26 | 16 | AA094491 | Capture oligonucle |
| c 244 | 11.2 | 56.0 | 44 | 20 | AA11415 | c 321 | 11 | 55.0 | 26 | 16 | AA075897 | Probe based on hum |
| c 245 | 11.2 | 56.0 | 44 | 20 | AA11415 | c 317 | 11 | 55.0 | 25 | 12 | AA011669 | Downstream PCR pri |
| c 246 | 11.2 | 56.0 | 44 | 21 | AA11415 | c 318 | 11 | 55.0 | 25 | 13 | AA034304 | HMG-17 M12623-mRNA |
| c 247 | 11.2 | 56.0 | 44 | 22 | AA16763 | c 319 | 11 | 55.0 | 25 | 21 | AA065314 | Human antibody ONS |
| c 248 | 11.2 | 56.0 | 44 | 22 | AA16775 | c 320 | 11 | 55.0 | 26 | 16 | AA075897 | CDR-grafting prime |
| c 249 | 11.2 | 56.0 | 47 | 21 | AA267346 | c 322 | 11 | 55.0 | 26 | 17 | AA178606 | Chimeric human/mu |
| c 250 | 11.2 | 56.0 | 47 | 21 | AA267346 | c 323 | 11 | 55.0 | 26 | 19 | AA178606 | Humanized anti-HM1 |
| c 251 | 11.2 | 56.0 | 50 | 22 | AA133223 | c 324 | 11 | 55.0 | 26 | 20 | AA133223 | Primer used in con |
| c 252 | 11.2 | 56.0 | 50 | 22 | AA133223 | c 325 | 11 | 55.0 | 27 | 16 | AA1703523 | Human T-cell recep |
| c 253 | 11.2 | 56.0 | 51 | 22 | AA126943 | c 326 | 11 | 55.0 | 27 | 20 | AA126943 | Oligonucleotide co |
| c 254 | 11.2 | 56.0 | 51 | 22 | AA127029 | c 327 | 11 | 55.0 | 28 | 20 | AA127029 | Probe INH43193.f u |
| c 255 | 11.2 | 56.0 | 51 | 22 | AA175982 | c 328 | 11 | 55.0 | 28 | 20 | AA175982 | EGF-like/EGF-8 hom |
| c 256 | 11.2 | 56.0 | 51 | 22 | AA177799 | c 329 | 11 | 55.0 | 28 | 21 | AA177526 | Human PRO187 oligo |
| c 257 | 11.2 | 56.0 | 51 | 22 | AA177826 | c 330 | 11 | 55.0 | 28 | 21 | AA177526 | Forward PCR primer |
| c 258 | 11.2 | 56.0 | 51 | 22 | AA177827 | c 331 | 11 | 55.0 | 28 | 22 | AA177827 | PRO187 forward PCR |
| c 259 | 11.2 | 56.0 | 51 | 22 | AA179222 | c 332 | 11 | 55.0 | 28 | 22 | AA179222 | PCR primer used to |
| c 260 | 11.2 | 56.0 | 52 | 16 | AA084364 | c 333 | 11 | 55.0 | 28 | 22 | AA179222 | Human PRO polydept |
| c 261 | 11.2 | 56.0 | 53 | 16 | AA096397 | c 334 | 11 | 55.0 | 29 | 21 | AA179222 | Hammerhead ribozym |
| c 262 | 11.2 | 56.0 | 53 | 16 | AA096397 | c 335 | 11 | 55.0 | 29 | 21 | AA179222 | PCR primer for DNA |
| c 263 | 11.2 | 56.0 | 53 | 22 | AA179222 | c 336 | 11 | 55.0 | 29 | 21 | AA179222 | Human cytokine rec |
| c 264 | 11.2 | 56.0 | 57 | 24 | AA122412 | c 337 | 11 | 55.0 | 29 | 21 | AA122412 | Human soluble Zalp |
| c 265 | 11.2 | 56.0 | 58 | 21 | AA122412 | c 338 | 11 | 55.0 | 30 | 14 | AA065526 | E. coli faba promo |
| c 266 | 11.2 | 56.0 | 60 | 8 | AA170506 | c 339 | 11 | 55.0 | 30 | 18 | AA170506 | Prohormone/propept |
| c 267 | 11.2 | 56.0 | 60 | 14 | AA051109 | c 340 | 11 | 55.0 | 30 | 19 | AA170506 | faba gene lower PC |
| c 268 | 11.2 | 56.0 | 61 | 13 | AA033643 | c 341 | 11 | 55.0 | 30 | 20 | AA170506 | Encoded adaptor se |
| c 269 | 11.2 | 56.0 | 62 | 24 | AA122417 | c 342 | 11 | 55.0 | 30 | 21 | AA170506 | Human ZCHEMO-8 cDN |
| c 270 | 11.2 | 56.0 | 72 | 9 | AA181315 | c 343 | 11 | 55.0 | 30 | 21 | AA170506 | Adaptor #16 used i |
| c 271 | 11.2 | 56.0 | 73 | 20 | AA181315 | c 344 | 11 | 55.0 | 30 | 21 | AA170506 | Sequence of primer |
| c 272 | 11.2 | 56.0 | 81 | 20 | AA181315 | c 345 | 11 | 55.0 | 31 | 13 | AA181315 | PCR primer #4. Sy |
| c 273 | 11.2 | 56.0 | 81 | 20 | AA181315 | c 346 | 11 | 55.0 | 31 | 13 | AA181315 | PCR primer used to |
| c 274 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 347 | 11 | 55.0 | 34 | 19 | AA181315 | Crossover junction |
| c 275 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 348 | 11 | 55.0 | 34 | 19 | AA181315 | Escherichia coli a |
| c 276 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 349 | 11 | 55.0 | 36 | 21 | AA181315 | Human Pax protein |
| c 277 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 350 | 11 | 55.0 | 41 | 21 | AA181315 | Transit peptide pr |
| c 278 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 351 | 11 | 55.0 | 47 | 18 | AA181315 | Human insulin-like |
| c 279 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 352 | 11 | 55.0 | 47 | 20 | AA181315 | Test sequence from |
| c 280 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 353 | 11 | 55.0 | 47 | 21 | AA181315 | Human map-related |
| c 281 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 354 | 11 | 55.0 | 47 | 21 | AA181315 | Human map-related |
| c 282 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 355 | 11 | 55.0 | 48 | 21 | AA181315 | DNA encoding 2 cop |
| c 283 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 356 | 11 | 55.0 | 50 | 18 | AA181315 | P. berghei citrums |
| c 284 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 357 | 11 | 55.0 | 50 | 18 | AA181315 | Sequence probe com |
| c 285 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 358 | 11 | 55.0 | 50 | 22 | AA181315 | Primer VK5-465-3' |
| c 286 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 359 | 11 | 55.0 | 50 | 22 | AA181315 | Human SNP oligonc |
| c 287 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 360 | 11 | 55.0 | 50 | 22 | AA181315 | Human SNP oligonc |
| c 288 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 361 | 11 | 55.0 | 51 | 18 | AA181315 | Human SNP oligonc |
| c 289 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 362 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 290 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 363 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 291 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 364 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 292 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 365 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 293 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 366 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 294 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 367 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 295 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 368 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 296 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 369 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 297 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 370 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 298 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 371 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 299 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 372 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 300 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 373 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |
| c 301 | 11.2 | 56.0 | 84 | 22 | AA181315 | c 374 | 11 | 55.0 | 51 | 22 | AA181315 | Human SNP oligonc |

| | | | | | | |
|-------|------|------|----|----|----------|--------------------|
| c 375 | 11 | 55.0 | 51 | 23 | ABL00402 | Human silent nonco |
| c 376 | 11 | 55.0 | 55 | 18 | AA177188 | Oligonucleotide co |
| c 377 | 11 | 55.0 | 57 | 16 | AA123644 | Human gene signatu |
| c 378 | 11 | 55.0 | 58 | 21 | AA126859 | Human secreted pro |
| c 379 | 11 | 55.0 | 58 | 24 | AA168945 | Activated T-cell d |
| c 380 | 11 | 55.0 | 59 | 21 | AA296881 | S. cerevisiae gene |
| c 381 | 11 | 55.0 | 60 | 21 | AA165310 | HMG-17 M12623-mRNA |
| c 382 | 11 | 55.0 | 60 | 21 | AA165313 | HMG-17 M12623-mRNA |
| c 383 | 11 | 55.0 | 62 | 22 | AA161605 | Murine TCR-ATP1 co |
| c 384 | 11 | 55.0 | 61 | 16 | AA100341 | Family 2 bFGF DNA |
| c 385 | 11 | 55.0 | 61 | 22 | AA170927 | bFGF DNA ligand #6 |
| c 386 | 11 | 55.0 | 64 | 13 | AAO32644 | TNF analogue cloni |
| c 387 | 11 | 55.0 | 66 | 18 | AA163488 | Type 5 17-beta-hyd |
| c 388 | 11 | 55.0 | 67 | 21 | AA151477 | Oligonucleotide MM |
| c 389 | 11 | 55.0 | 70 | 18 | AA178646 | SELEX generated 11 |
| c 390 | 11 | 55.0 | 71 | 18 | AA178644 | SELEX generated 11 |
| c 391 | 11 | 55.0 | 72 | 14 | AAO38302 | T cell receptor V |
| c 392 | 11 | 55.0 | 72 | 14 | AAO38305 | T cell receptor V |
| c 393 | 11 | 55.0 | 72 | 19 | AAV22661 | T cell receptor al |
| c 394 | 11 | 55.0 | 72 | 19 | AAV22664 | T cell receptor al |
| c 395 | 11 | 55.0 | 73 | 13 | AAO33814 | Downstream sequenc |
| c 396 | 11 | 55.0 | 74 | 13 | AAO27935 | PCR primer for the |
| c 397 | 11 | 55.0 | 74 | 13 | AAO28641 | TNF primer, TN13. |
| c 398 | 11 | 55.0 | 74 | 13 | AAO29901 | Primer TN13 to amp |
| c 399 | 11 | 55.0 | 74 | 13 | AAO28084 | Human TNF gene PCR |
| c 400 | 11 | 55.0 | 74 | 22 | AA135277 | Human musculoskele |
| c 401 | 11 | 55.0 | 75 | 21 | AA165312 | HMG-17 M12623-mRNA |
| c 402 | 11 | 55.0 | 76 | 22 | AA149713 | Human breast cell |
| c 403 | 11 | 55.0 | 76 | 22 | AA167619 | Human foetal liver |
| c 404 | 11 | 55.0 | 76 | 22 | AA134695 | Probe #1161 for g |
| c 405 | 11 | 55.0 | 76 | 22 | AA116040 | Human brain expres |
| c 406 | 11 | 55.0 | 76 | 22 | AA141785 | Human bone marrow |
| c 407 | 11 | 55.0 | 76 | 22 | AA12543 | Probe #12476 for g |
| c 408 | 11 | 55.0 | 76 | 22 | AA147835 | Probe #16521 used |
| c 409 | 11 | 55.0 | 76 | 22 | AA108226 | Probe #8217 used t |
| c 410 | 11 | 55.0 | 78 | 21 | AA151476 | Oligonucleotide MM |
| c 411 | 11 | 55.0 | 81 | 13 | AAO25402 | Sequence coding fo |
| c 412 | 11 | 55.0 | 81 | 22 | AA170919 | bFGF DNA ligand #5 |
| c 413 | 11 | 55.0 | 82 | 16 | AA100333 | Family 2 bFGF DNA |
| c 414 | 11 | 55.0 | 84 | 14 | AAO38303 | T cell receptor V |
| c 415 | 11 | 55.0 | 84 | 14 | AAO38306 | T cell receptor V |
| c 416 | 11 | 55.0 | 84 | 19 | AAV22662 | T cell receptor al |
| c 417 | 11 | 55.0 | 84 | 19 | AAV22665 | T cell receptor al |
| c 418 | 11 | 55.0 | 87 | 17 | AA173362 | Ich-2 p30 5' prime |
| c 419 | 11 | 55.0 | 88 | 16 | AA125164 | Human gene signatu |
| c 420 | 11 | 55.0 | 94 | 21 | AA15541 | Human secreted pro |
| c 421 | 11 | 55.0 | 95 | 18 | AA158018 | P-selectin SELEX 2 |
| c 422 | 11 | 55.0 | 95 | 22 | AA179248 | Human alpha 2b int |
| c 423 | 11 | 55.0 | 99 | 21 | AA15527 | Human secreted pro |
| c 424 | 10.8 | 54.0 | 14 | 19 | AA132957 | Probe 2 used as an |
| c 425 | 10.8 | 54.0 | 15 | 22 | AA150831 | IGF-1 oligonucleot |
| c 426 | 10.8 | 54.0 | 15 | 22 | AA150832 | IGF-1 oligonucleot |
| c 427 | 10.8 | 54.0 | 17 | 21 | AA172252 | Single nucleotide |
| c 428 | 10.8 | 54.0 | 17 | 21 | AA172258 | Single nucleotide |
| c 429 | 10.8 | 54.0 | 17 | 21 | AA172258 | Single nucleotide |
| c 430 | 10.8 | 54.0 | 17 | 21 | AA172258 | Single nucleotide |
| c 431 | 10.8 | 54.0 | 18 | 16 | AA156715 | Human OB gene muta |
| c 432 | 10.8 | 54.0 | 18 | 16 | AA156715 | Human CD20 inozyme |
| c 433 | 10.8 | 54.0 | 18 | 24 | AA124282 | Human TNF-alpha ha |
| c 434 | 10.8 | 54.0 | 19 | 20 | AA121080 | Human genomic DNA |
| c 435 | 10.8 | 54.0 | 19 | 22 | AA100702 | Human Fc-epsilon-R |
| c 436 | 10.8 | 54.0 | 20 | 15 | AA144807 | Sequencing primer |
| c 437 | 10.8 | | | | | |

| | | | | | | | | | | | | | |
|-----|------|------|-----|----|----------|--------------------|-------|------|------|----|----|----------|----------------------|
| 521 | 10.8 | 54.0 | 65 | 18 | AA75053 | Saponaria officina | c 594 | 10.6 | 53.0 | 36 | 21 | AA688425 | Thiamine responsiv |
| 522 | 10.8 | 54.0 | 66 | 21 | AAA12907 | Optimised saporin | c 595 | 10.6 | 53.0 | 37 | 15 | AA656123 | Erythropoietin dom |
| 523 | 10.8 | 54.0 | 65 | 22 | AA504696 | Gene expression pr | c 596 | 10.6 | 53.0 | 37 | 21 | AAA13878 | Erythropoietin mut |
| 524 | 10.8 | 54.0 | 69 | 18 | AA75052 | Saponaria officina | c 597 | 10.6 | 53.0 | 37 | 24 | AA222551 | Human Rta1pha/PKA |
| 525 | 10.8 | 54.0 | 69 | 21 | AAA12906 | Optimised saporin | c 598 | 10.6 | 53.0 | 40 | 20 | AA226998 | Human Rta1pha/PKA |
| 526 | 10.8 | 54.0 | 71 | 20 | AA782824 | TAT-HV-p15b1d fusi | c 599 | 10.6 | 53.0 | 40 | 21 | AA259666 | Human Chromosome 1 |
| 527 | 10.8 | 54.0 | 71 | 21 | AA638850 | Mouse bid p15 doma | c 600 | 10.6 | 53.0 | 40 | 22 | AA259666 | Human Chromosome 1 |
| 528 | 10.8 | 54.0 | 71 | 21 | AAA46604 | PCR primer used to | c 601 | 10.6 | 53.0 | 42 | 16 | AA088971 | Reverse PCR primer |
| 529 | 10.8 | 54.0 | 71 | 22 | AA687268 | Mouse cytochrome p | c 602 | 10.6 | 53.0 | 42 | 17 | AA740749 | VEGF RNA nucleic a |
| 530 | 10.8 | 54.0 | 75 | 18 | AA786485 | JYB-1 gene deleti | c 603 | 10.6 | 53.0 | 45 | 20 | AA788768 | Recombinant HIV-pa |
| 531 | 10.8 | 54.0 | 75 | 20 | AA211433 | HRE element contai | c 604 | 10.6 | 53.0 | 45 | 20 | AA788768 | SV40 oligonucleoti |
| 532 | 10.8 | 54.0 | 80 | 19 | AA411599 | Human biallelic po | c 605 | 10.6 | 53.0 | 47 | 22 | AA219371 | SV40 oligonucleoti |
| 533 | 10.8 | 54.0 | 82 | 20 | AA259053 | Oligonucleotide D- | c 606 | 10.6 | 53.0 | 48 | 22 | AA259053 | Mammalian IL-12 p4 |
| 534 | 10.8 | 54.0 | 93 | 22 | AA687401 | Human prostate can | c 607 | 10.6 | 53.0 | 48 | 22 | AA687401 | Human map-related |
| 535 | 10.8 | 54.0 | 97 | 21 | AA59447 | Oligonucleotide us | c 608 | 10.6 | 53.0 | 47 | 21 | AA267554 | Human map-related |
| 536 | 10.8 | 54.0 | 98 | 22 | AA241395 | Human normal pancr | c 609 | 10.6 | 53.0 | 47 | 21 | AA267554 | Human map-related |
| 537 | 10.8 | 54.0 | 98 | 22 | AA770555 | Human foetal liver | c 610 | 10.6 | 53.0 | 48 | 22 | AA770555 | Human map-related |
| 538 | 10.8 | 54.0 | 98 | 22 | AA44739 | Human bone marrow | c 611 | 10.6 | 53.0 | 48 | 22 | AA770555 | Human Chk1 ribozym |
| 539 | 10.8 | 54.0 | 98 | 22 | AA150717 | Probe #19403 used | c 612 | 10.6 | 53.0 | 50 | 20 | AA774019 | Human PRO in situ |
| 540 | 10.8 | 54.0 | 100 | 21 | AA59447 | Oligonucleotide us | c 613 | 10.6 | 53.0 | 50 | 22 | AA128348 | Human PRO in situ |
| 541 | 10.6 | 53.0 | 17 | 18 | AA771114 | PCR primer MLI use | c 614 | 10.6 | 53.0 | 50 | 11 | AA006724 | Human NCOG Ambery |
| 542 | 10.6 | 53.0 | 17 | 22 | AA403599 | Primer used to amp | c 615 | 10.6 | 53.0 | 50 | 11 | AA006724 | :HBV, LTA2C, D47 amp |
| 543 | 10.6 | 53.0 | 17 | 22 | AA442283 | Primer #68. Homo | c 616 | 10.6 | 53.0 | 50 | 17 | AA734948 | Single stranded DN |
| 544 | 10.6 | 53.0 | 17 | 22 | AA664124 | Human Ige receptor | c 617 | 10.6 | 53.0 | 50 | 20 | AA774019 | Enzymatic DNA frag |
| 545 | 10.6 | 53.0 | 18 | 18 | AA76088 | Human Ige receptor | c 618 | 10.6 | 53.0 | 50 | 22 | AA134049 | Human SNP oligonc |
| 546 | 10.6 | 53.0 | 18 | 18 | AA76074 | Human FC-epsilon r | c 619 | 10.6 | 53.0 | 50 | 22 | AA134049 | Human SNP oligonc |
| 547 | 10.6 | 53.0 | 18 | 20 | AA53893 | Human Ige receptor | c 620 | 10.6 | 53.0 | 50 | 22 | AA134049 | Human SNP oligonc |
| 548 | 10.6 | 53.0 | 18 | 20 | AA53893 | Human FC-epsilon C | c 621 | 10.6 | 53.0 | 50 | 22 | AA176091 | Human silent SNP c |
| 549 | 10.6 | 53.0 | 18 | 20 | AA53893 | Human Ige receptor | c 622 | 10.6 | 53.0 | 51 | 21 | AA490366 | Human clone c94399 |
| 550 | 10.6 | 53.0 | 18 | 21 | AA619438 | Human Ige receptor | c 623 | 10.6 | 53.0 | 51 | 21 | AA490366 | Human clone c92777 |
| 551 | 10.6 | 53.0 | 18 | 21 | AA619438 | Human telomerase h | c 624 | 10.6 | 53.0 | 51 | 21 | AA490366 | Human clone c93951 |
| 552 | 10.6 | 53.0 | 18 | 21 | AA65660 | Human PRO274 forna | c 625 | 10.6 | 53.0 | 51 | 22 | AA133080 | Human SNP oligonc |
| 553 | 10.6 | 53.0 | 18 | 21 | AA65660 | Antisense oligonc | c 626 | 10.6 | 53.0 | 51 | 22 | AA133080 | Human SNP oligonc |
| 554 | 10.6 | 53.0 | 18 | 21 | AA65660 | Antisense oligonc | c 627 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human silent SNP c |
| 555 | 10.6 | 53.0 | 18 | 21 | AA65660 | Low adenosine anti | c 628 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 556 | 10.6 | 53.0 | 18 | 21 | AA65660 | Hybridisation prob | c 629 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 557 | 10.6 | 53.0 | 19 | 18 | AA65660 | Probe N1P26 for h | c 630 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 558 | 10.6 | 53.0 | 19 | 18 | AA65660 | BSS1/CEL Exon 10/1 | c 631 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 559 | 10.6 | 53.0 | 19 | 18 | AA65660 | Human GAPDH Inton | c 632 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 560 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 633 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 561 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 634 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 562 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 635 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 563 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 636 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 564 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 637 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 565 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 638 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 566 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 639 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 567 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 640 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 568 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 641 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 569 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 642 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 570 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 643 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 571 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 644 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 572 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 645 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 573 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 646 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 574 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 647 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 575 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 648 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 576 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 649 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 577 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 650 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 578 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 651 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 579 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 652 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 580 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 653 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 581 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 654 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 582 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 655 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 583 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 656 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 584 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 657 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 585 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 658 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 586 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 659 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 587 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 660 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 588 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 661 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 589 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human GAPDH Inton | c 662 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 590 | 10.6 | 53.0 | 20 | 13 | AA032324 | Interleukin 6 vari | c 663 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 591 | 10.6 | 53.0 | 20 | 13 | AA032324 | Human Class I HLA | c 664 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 592 | 10.6 | 53.0 | 20 | 13 | AA032324 | Probe N1P26 for h | c 665 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |
| 593 | 10.6 | 53.0 | 20 | 13 | AA032324 | BSS1/CEL Exon 10/1 | c 666 | 10.6 | 53.0 | 51 | 22 | AA176091 | Human clone c94399 |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|---------------------|-------|------|------|----|----|-----------|---------------------|
| C 667 | 10.6 | 53.0 | 86 | 17 | AAT28140 | Senescence-related | 740 | 10.4 | 52.0 | 24 | 19 | AAV69297 | Human HPRT exon 3 |
| C 668 | 10.6 | 53.0 | 87 | 21 | AAV73268 | C. utilis crty pri | 741 | 10.4 | 52.0 | 24 | 19 | AAV27312 | alpha-cardiac myos |
| C 669 | 10.6 | 53.0 | 87 | 21 | AAAC10232 | Human secreted pro | 742 | 10.4 | 52.0 | 24 | 19 | AAA39288 | Corrected neo gene |
| C 670 | 10.6 | 53.0 | 87 | 22 | ABAA49179 | Human breast cell | C 743 | 10.4 | 52.0 | 24 | 22 | AAH26628 | Mouse SCD1 gene ex |
| C 671 | 10.6 | 53.0 | 87 | 22 | ABAA67091 | Human foetal liver | C 744 | 10.4 | 52.0 | 24 | 24 | AB183266 | Capture oligonucle |
| C 672 | 10.6 | 53.0 | 87 | 22 | ABAA34182 | Probe #12648 for g | C 745 | 10.4 | 52.0 | 24 | 24 | AB183267 | Capture oligonucle |
| C 673 | 10.6 | 53.0 | 87 | 22 | AAK15534 | Human brain expres | C 746 | 10.4 | 52.0 | 24 | 24 | AB184728 | Capture oligonucle |
| C 674 | 10.6 | 53.0 | 87 | 22 | AAK41265 | Human bone marrow | C 747 | 10.4 | 52.0 | 24 | 24 | AB184729 | Capture oligonucle |
| C 675 | 10.6 | 53.0 | 87 | 22 | AAI22016 | Probe #11949 for g | C 748 | 10.4 | 52.0 | 24 | 24 | AB186128 | Capture oligonucle |
| C 676 | 10.6 | 53.0 | 87 | 22 | AAI47309 | Probe #15995 used | C 749 | 10.4 | 52.0 | 24 | 24 | AB186129 | Capture oligonucle |
| C 677 | 10.6 | 53.0 | 87 | 22 | AAI07712 | Probe #7703 used t | C 750 | 10.4 | 52.0 | 24 | 24 | AB187266 | Capture oligonucle |
| C 678 | 10.6 | 53.0 | 95 | 21 | AAZ91615 | E.coli promoter re | C 751 | 10.4 | 52.0 | 24 | 24 | AB187267 | Capture oligonucle |
| C 679 | 10.6 | 53.0 | 95 | 22 | AAFS5134 | Sulfonemuron methyl | C 752 | 10.4 | 52.0 | 24 | 24 | AB189906 | Capture oligonucle |
| C 680 | 10.6 | 53.0 | 97 | 21 | AAAC32432 | Human secreted pro | C 753 | 10.4 | 52.0 | 24 | 24 | AB189907 | Capture oligonucle |
| C 681 | 10.6 | 53.0 | 98 | 22 | AAAC89204 | Human brain T calc | C 754 | 10.4 | 52.0 | 24 | 24 | AB192532 | Capture oligonucle |
| C 682 | 10.6 | 53.0 | 99 | 18 | AAT57729 | Wheat germ aggluti | C 755 | 10.4 | 52.0 | 24 | 24 | AB192533 | Capture oligonucle |
| C 683 | 10.6 | 53.0 | 99 | 21 | AAAC12880 | Human secreted pro | C 756 | 10.4 | 52.0 | 25 | 18 | AAAS0358 | Goodpasture antigen |
| C 684 | 10.4 | 52.0 | 13 | 23 | ABFI19396 | Oligonucleotide SE | C 757 | 10.4 | 52.0 | 25 | 21 | AAAB68425 | Bacteriophage 3A O |
| C 685 | 10.4 | 52.0 | 13 | 23 | ABFI19397 | Oligonucleotide SE | C 758 | 10.4 | 52.0 | 25 | 21 | AAAB68419 | Bacteriophage 96 O |
| C 686 | 10.4 | 52.0 | 13 | 23 | ABFI19398 | Oligonucleotide SE | C 759 | 10.4 | 52.0 | 25 | 21 | AAAB68189 | Primer ZC18,610 fo |
| C 687 | 10.4 | 52.0 | 13 | 23 | ABFI19399 | Oligonucleotide SE | C 760 | 10.4 | 52.0 | 25 | 22 | AAD03116 | Reverse PCR primer |
| C 688 | 10.4 | 52.0 | 13 | 23 | ABHA43022 | Oligonucleotide SE | C 761 | 10.4 | 52.0 | 25 | 22 | AAAC84290 | Signal transductio |
| C 689 | 10.4 | 52.0 | 13 | 23 | ABHA43023 | Oligonucleotide SE | C 762 | 10.4 | 52.0 | 25 | 18 | AAT75156 | Primer Pr-1 used i |
| C 690 | 10.4 | 52.0 | 15 | 22 | AAFS52622 | IGF-I oligonucleot | C 763 | 10.4 | 52.0 | 26 | 20 | AAAX0815 | Oligonucleotide us |
| C 691 | 10.4 | 52.0 | 15 | 22 | AAFS52629 | IGF-I oligonucleot | C 764 | 10.4 | 52.0 | 26 | 21 | AAZ38360 | API consensus bind |
| C 692 | 10.4 | 52.0 | 16 | 15 | AAO64554 | HLA (class II) DRB | C 765 | 10.4 | 52.0 | 26 | 22 | AAAH40605 | SNP specific upper |
| C 693 | 10.4 | 52.0 | 17 | 15 | AAO94595 | Human IL-2 recepto | C 766 | 10.4 | 52.0 | 27 | 20 | AAAS59040 | Human transcriptio |
| C 694 | 10.4 | 52.0 | 17 | 20 | AAAI21059 | Integrin alpha 6 s | C 767 | 10.4 | 52.0 | 27 | 21 | AAZ29429 | Nested PCR primer |
| C 695 | 10.4 | 52.0 | 17 | 20 | AAAI90927 | Human C-raf target | C 768 | 10.4 | 52.0 | 28 | 22 | AAAI59152 | PCR primer for S. |
| C 696 | 10.4 | 52.0 | 17 | 24 | ABLI31199 | Human HLA genotypi | C 769 | 10.4 | 52.0 | 28 | 24 | AAD26237 | Human caspase-12 c |
| C 697 | 10.4 | 52.0 | 18 | 16 | AAO91543 | Control scrambled | C 770 | 10.4 | 52.0 | 28 | 24 | AAD26238 | Human caspase-12 c |
| C 698 | 10.4 | 52.0 | 18 | 16 | AAV94827 | Human IL-2 recepto | C 771 | 10.4 | 52.0 | 29 | 18 | AAD63404 | Oligonucleotide an |
| C 699 | 10.4 | 52.0 | 18 | 20 | AAAX34972 | PCR primer used to | C 772 | 10.4 | 52.0 | 29 | 20 | AAAI8275 | Human TIE-2 hamme |
| C 700 | 10.4 | 52.0 | 18 | 21 | AAZ73088 | Human diallelic ma | C 773 | 10.4 | 52.0 | 29 | 21 | AAZ33387 | Human secreted pro |
| C 701 | 10.4 | 52.0 | 18 | 22 | AAH47545 | Human Her-3 mRNA i | C 774 | 10.4 | 52.0 | 30 | 17 | AAT18375 | Primer #1 for crtb |
| C 702 | 10.4 | 52.0 | 18 | 24 | ABLI30703 | Human HLA genotypi | C 775 | 10.4 | 52.0 | 30 | 17 | AAT10721 | Platelet glycoprot |
| C 703 | 10.4 | 52.0 | 19 | 19 | AAOX9277 | Human diallelic po | C 776 | 10.4 | 52.0 | 30 | 20 | AAV81994 | Cytochrome P450 CY |
| C 704 | 10.4 | 52.0 | 20 | 14 | AAO43026 | PCR primer CD4. NO | C 777 | 10.4 | 52.0 | 30 | 21 | AAAA47597 | Sequence encoding |
| C 705 | 10.4 | 52.0 | 20 | 14 | AAO37143 | MS32 5' flanking r | C 778 | 10.4 | 52.0 | 30 | 22 | AAD14231 | Synthetic transcri |
| C 706 | 10.4 | 52.0 | 20 | 15 | AAO45039 | Oligomer comprisn | C 779 | 10.4 | 52.0 | 30 | 24 | AAT10975 | Beta-glucuronidase |
| C 707 | 10.4 | 52.0 | 20 | 16 | AAO82537 | Chromosome 11 (loc | C 780 | 10.4 | 52.0 | 31 | 15 | AAO65435 | GP 1b-alpha primer |
| C 708 | 10.4 | 52.0 | 20 | 17 | AAT27485 | Human C-raf kinase | C 781 | 10.4 | 52.0 | 31 | 18 | AAT71646 | Platelet glycoprot |
| C 709 | 10.4 | 52.0 | 20 | 19 | AAV70039 | Rat c-jun protein | C 782 | 10.4 | 52.0 | 31 | 18 | AAT62591 | Primer j8 for wild |
| C 710 | 10.4 | 52.0 | 20 | 19 | AAV67030 | Mouse Ikaros oligo | C 783 | 10.4 | 52.0 | 31 | 20 | AAAX38856 | Human genomic DNA |
| C 711 | 10.4 | 52.0 | 20 | 19 | AAV42166 | Mouse Ikaros isofo | C 784 | 10.4 | 52.0 | 31 | 22 | AAI30690 | Human single nucle |
| C 712 | 10.4 | 52.0 | 20 | 20 | AAZ11515 | Human c-raf kinase | C 785 | 10.4 | 52.0 | 32 | 16 | AAT02440 | Primer for stannio |
| C 713 | 10.4 | 52.0 | 20 | 20 | AAAX92752 | Chromosome 11 (loc | C 786 | 10.4 | 52.0 | 32 | 20 | AAO08789 | Human ARE from NAD |
| C 714 | 10.4 | 52.0 | 20 | 21 | AAAC86532 | PCR primer used to | C 787 | 10.4 | 52.0 | 33 | 19 | AAV33215 | Fibroblast growth |
| C 715 | 10.4 | 52.0 | 20 | 21 | AAAT73493 | Human c-raf kinase | C 788 | 10.4 | 52.0 | 33 | 22 | AAI66102 | Human ATP dependen |
| C 716 | 10.4 | 52.0 | 20 | 22 | AAAS01845 | Cytochrome P-450 (| C 789 | 10.4 | 52.0 | 33 | 22 | AAFS9205 | Immunostimulatory |
| C 717 | 10.4 | 52.0 | 20 | 22 | AAAF98174 | Human IGFBP gene P | C 790 | 10.4 | 52.0 | 33 | 22 | AAAF9206 | Immunostimulatory |
| C 718 | 10.4 | 52.0 | 20 | 22 | AAAC81186 | Human bcl-6 phosph | C 791 | 10.4 | 52.0 | 33 | 22 | AAAC9676 | Human FGF-13 PCR p |
| C 719 | 10.4 | 52.0 | 20 | 22 | AB193348 | Capture oligonucle | C 792 | 10.4 | 52.0 | 33 | 22 | AAAC9682 | Human FGF-13 PCR p |
| C 720 | 10.4 | 52.0 | 20 | 24 | AB194079 | Capture oligonucle | C 793 | 10.4 | 52.0 | 33 | 22 | AAAC90690 | Human FGF-13 PCR p |
| C 721 | 10.4 | 52.0 | 20 | 24 | AB194779 | Capture oligonucle | C 794 | 10.4 | 52.0 | 33 | 22 | AAAC90696 | Human FGF-13 PCR p |
| C 722 | 10.4 | 52.0 | 20 | 24 | AB195348 | Capture oligonucle | C 795 | 10.4 | 52.0 | 33 | 22 | AAAT71990 | Human FGF-13 PCR p |
| C 723 | 10.4 | 52.0 | 21 | 16 | AAO82019 | Chromosome 11 (loc | C 796 | 10.4 | 52.0 | 34 | 20 | AAAX31900 | Porphyromonas ging |
| C 724 | 10.4 | 52.0 | 21 | 16 | AAZ26021 | Human polymorphic | C 797 | 10.4 | 52.0 | 34 | 21 | AAAX30152 | PCR primer DR4590 |
| C 725 | 10.4 | 52.0 | 21 | 21 | AAZ75452 | Human diallelic ma | C 798 | 10.4 | 52.0 | 34 | 21 | AAZ89340 | Human UCP3 protein |
| C 726 | 10.4 | 52.0 | 22 | 13 | AAO21480 | CYP synthetase gen | C 799 | 10.4 | 52.0 | 35 | 13 | AAO25674 | Sequence of 5'SK p |
| C 727 | 10.4 | 52.0 | 22 | 13 | AAH45174 | Human angiotensin | C 800 | 10.4 | 52.0 | 35 | 16 | AAO84752 | Primer (P35.1) to |
| C 728 | 10.4 | 52.0 | 22 | 13 | AAFS29252 | PCR primer for amp | C 801 | 10.4 | 52.0 | 36 | 18 | AAAT97138 | PCR primer used to |
| C 729 | 10.4 | 52.0 | 23 | 16 | AAO94170 | Oligonucleotide pr | C 802 | 10.4 | 52.0 | 37 | 19 | AAV61999 | Rat mcln PCR prim |
| C 730 | 10.4 | 52.0 | 23 | 18 | AAAT68828 | Highly active ham | C 803 | 10.4 | 52.0 | 38 | 17 | AAT72077 | HHP-1 polymorphic |
| C 731 | 10.4 | 52.0 | 23 | 20 | AAZ10212 | PCR primer used to | C 804 | 10.4 | 52.0 | 38 | 17 | AAT43957 | HHP-1 polymorphic |
| C 732 | 10.4 | 52.0 | 23 | 21 | AAZ28644 | Human 20PF12 gene | C 805 | 10.4 | 52.0 | 38 | 22 | AAH79382 | Mutated DNA fringe |
| C 733 | 10.4 | 52.0 | 23 | 22 | AAH40606 | SNP specific lower | C 806 | 10.4 | 52.0 | 40 | 18 | AAT47969 | Mutant polyketase |
| C 734 | 10.4 | 52.0 | 23 | 22 | AAAF30936 | Oestrinia nubialis | C 807 | 10.4 | 52.0 | 40 | 19 | AAAV21180 | Mutant polyketase |
| C 735 | 10.4 | 52.0 | 23 | 24 | ABLI31875 | Human CYP3A3/4 pro | C 808 | 10.4 | 52.0 | 40 | 20 | AAAX27140 | PCR primer for FY2 |
| C 736 | 10.4 | 52.0 | 24 | 17 | AAT72655 | Human CYP3A3/4 pro | C 809 | 10.4 | 52.0 | 40 | 21 | AAAC73559 | Single base extens |
| C 737 | 10.4 | 52.0 | 24 | 18 | AAT91092 | Bovine lysosomal a | C 810 | 10.4 | 52.0 | 40 | 21 | AAZ61340 | Primer 12A used to |
| C 738 | 10.4 | 52.0 | 24 | 18 | AAT91099 | Bovine lysosomal a | C 811 | 10.4 | 52.0 | 41 | 18 | AAT79336 | Chimeric virus con |
| C 739 | 10.4 | 52.0 | 24 | 18 | AAT79307 | Human hypoxanthine | C 812 | 10.4 | 52.0 | 41 | 22 | AAI66104 | Human ATP dependen |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|----------|---------------------|-------|------|------|----|----|----------|--------------------|
| c 813 | 10.4 | 52.0 | 41 | 22 | AA16105 | Human ATP dependen | c 866 | 10.4 | 52.0 | 57 | 22 | AA018525 | PCR primer, to obt |
| c 814 | 10.4 | 52.0 | 43 | 15 | AA069280 | Human aldolase A g | c 867 | 10.4 | 52.0 | 60 | 21 | AAA65317 | Osteopontin linker |
| c 815 | 10.4 | 52.0 | 43 | 18 | AA063742 | Human aldolase A g | c 868 | 10.4 | 52.0 | 60 | 21 | AAA65317 | Codon altered HIV |
| c 816 | 10.4 | 52.0 | 43 | 20 | AA017030 | Test sequence from | c 869 | 10.4 | 52.0 | 61 | 21 | AA063169 | Novel strand displ |
| c 817 | 10.4 | 52.0 | 43 | 21 | AA063384 | PCR primer 05185. | c 880 | 10.4 | 52.0 | 61 | 21 | AA063169 | Novel strand displ |
| c 818 | 10.4 | 52.0 | 43 | 21 | AA064977 | Murine fibronectin | c 881 | 10.4 | 52.0 | 61 | 21 | AA064848 | Novel strand displ |
| c 819 | 10.4 | 52.0 | 43 | 22 | AA016994 | Mouse wild-type 10 | c 882 | 10.4 | 52.0 | 61 | 21 | AA065192 | Novel strand displ |
| c 820 | 10.4 | 52.0 | 44 | 16 | AA093979 | Intronic human MSH | c 883 | 10.4 | 52.0 | 61 | 21 | AA065259 | Allele-specific st |
| c 821 | 10.4 | 52.0 | 44 | 22 | AA020669 | Human urinary type | c 884 | 10.4 | 52.0 | 61 | 22 | AA065477 | Human neurogulin g |
| c 822 | 10.4 | 52.0 | 44 | 22 | AA014622 | WN virus-specific | c 885 | 10.4 | 52.0 | 61 | 22 | AA068040 | Human neurogulin g |
| c 823 | 10.4 | 52.0 | 44 | 24 | AA021968 | Human urokinase (U | c 886 | 10.4 | 52.0 | 61 | 22 | AA063650 | Shiga-like toxin-1 |
| c 824 | 10.4 | 52.0 | 45 | 18 | AA078337 | Chimeric virus con | c 887 | 10.4 | 52.0 | 63 | 18 | AA064910 | Novel strand displ |
| c 825 | 10.4 | 52.0 | 45 | 19 | AA078337 | Rat GALT2 receptor | c 888 | 10.4 | 52.0 | 66 | 24 | AA077120 | Staphylococcus aur |
| c 826 | 10.4 | 52.0 | 46 | 13 | AA098464 | Human protective D | c 889 | 10.4 | 52.0 | 67 | 20 | AA082649 | Relaxin/IGF/insuli |
| c 827 | 10.4 | 52.0 | 46 | 13 | AA024360 | Oligonucleotide pri | c 890 | 10.4 | 52.0 | 67 | 20 | AA082649 | Oligonucleotide us |
| c 828 | 10.4 | 52.0 | 46 | 20 | AA091870 | Porphyromonas ging | c 901 | 10.4 | 52.0 | 70 | 18 | AA055342 | Oligonucleotide us |
| c 829 | 10.4 | 52.0 | 47 | 21 | AA066268 | Human map-related | c 902 | 10.4 | 52.0 | 70 | 18 | AA055342 | Human keratinocyte |
| c 830 | 10.4 | 52.0 | 47 | 21 | AA066268 | Human map-related | c 903 | 10.4 | 52.0 | 72 | 17 | AA055311 | Human keratinocyte |
| c 831 | 10.4 | 52.0 | 47 | 21 | AA067537 | Human map-related | c 904 | 10.4 | 52.0 | 72 | 20 | AA034836 | Primer used in hum |
| c 832 | 10.4 | 52.0 | 47 | 21 | AA069018 | Human map-related | c 905 | 10.4 | 52.0 | 72 | 20 | AA034836 | Codons 150-173 of |
| c 833 | 10.4 | 52.0 | 47 | 21 | AA069018 | Human map-related | c 906 | 10.4 | 52.0 | 72 | 21 | AA031525 | Codons 150-173 of |
| c 834 | 10.4 | 52.0 | 47 | 21 | AA069018 | Human map-related | c 907 | 10.4 | 52.0 | 72 | 22 | AA084206 | Human cell death p |
| c 835 | 10.4 | 52.0 | 49 | 24 | AA017231 | DNA sequence #4 fr | c 908 | 10.4 | 52.0 | 75 | 22 | AA076012 | Human cell death p |
| c 836 | 10.4 | 52.0 | 50 | 15 | AA069710 | Owl monkey Insulin | c 909 | 10.4 | 52.0 | 75 | 22 | AA034731 | Human foetal liver |
| c 837 | 10.4 | 52.0 | 50 | 16 | AA093320 | BEGF 2'-NH2 RNA 11 | c 910 | 10.4 | 52.0 | 75 | 22 | AA034731 | Corneodesmosin sin |
| c 838 | 10.4 | 52.0 | 50 | 18 | AA064172 | Owl monkey insulin | c 911 | 10.4 | 52.0 | 75 | 22 | AA050689 | Human brain expres |
| c 839 | 10.4 | 52.0 | 50 | 20 | AA017460 | Test sequence from | c 912 | 10.4 | 52.0 | 75 | 22 | AA050689 | Human bone marrow |
| c 840 | 10.4 | 52.0 | 50 | 22 | AA028068 | Human SNP oligonuc | c 913 | 10.4 | 52.0 | 76 | 22 | AA076708 | Probe #25353 used |
| c 841 | 10.4 | 52.0 | 50 | 22 | AA028068 | Human SNP oligonuc | c 914 | 10.4 | 52.0 | 76 | 22 | AA041200 | Human foetal liver |
| c 842 | 10.4 | 52.0 | 50 | 22 | AA029974 | Human SNP oligonuc | c 915 | 10.4 | 52.0 | 76 | 22 | AA041200 | Probe #19672 for g |
| c 843 | 10.4 | 52.0 | 50 | 22 | AA031088 | Human SNP oligonuc | c 916 | 10.4 | 52.0 | 76 | 22 | AA025336 | Human brain expres |
| c 844 | 10.4 | 52.0 | 50 | 22 | AA033545 | Human SNP oligonuc | c 917 | 10.4 | 52.0 | 76 | 22 | AA018359 | Probe #18292 for g |
| c 845 | 10.4 | 52.0 | 50 | 22 | AA034353 | Human SNP oligonuc | c 918 | 10.4 | 52.0 | 77 | 18 | AA015743 | Probe #26099 used |
| c 846 | 10.4 | 52.0 | 50 | 22 | AA016255 | Human SNP oligonuc | c 919 | 10.4 | 52.0 | 79 | 21 | AA024129 | Human tumour necro |
| c 847 | 10.4 | 52.0 | 50 | 22 | AA089675 | Human silent SNP c | c 920 | 10.4 | 52.0 | 83 | 22 | AA047306 | Human secreted pro |
| c 848 | 10.4 | 52.0 | 50 | 22 | AA070701 | 2'-NH2 RNA ligand t | c 921 | 10.4 | 52.0 | 83 | 22 | AA047306 | Human breast cell |
| c 849 | 10.4 | 52.0 | 50 | 22 | AA068873 | Activated T-cell d | c 922 | 10.4 | 52.0 | 83 | 22 | AA065191 | Human foetal liver |
| c 850 | 10.4 | 52.0 | 51 | 17 | AA034835 | Primer used in hum | c 923 | 10.4 | 52.0 | 83 | 22 | AA065191 | Probe #10758 for g |
| c 851 | 10.4 | 52.0 | 51 | 22 | AA027027 | Human SNP oligonuc | c 924 | 10.4 | 52.0 | 83 | 22 | AA033608 | Human brain expres |
| c 852 | 10.4 | 52.0 | 51 | 22 | AA027724 | Human SNP oligonuc | c 925 | 10.4 | 52.0 | 83 | 22 | AA033608 | Human bone marrow |
| c 853 | 10.4 | 52.0 | 51 | 22 | AA027725 | Human SNP oligonuc | c 926 | 10.4 | 52.0 | 83 | 22 | AA020162 | Probe #10095 for g |
| c 854 | 10.4 | 52.0 | 51 | 22 | AA027728 | Human SNP oligonuc | c 927 | 10.4 | 52.0 | 83 | 22 | AA015367 | Probe #14048 used |
| c 855 | 10.4 | 52.0 | 51 | 22 | AA030252 | Human SNP oligonuc | c 928 | 10.4 | 52.0 | 84 | 21 | AA028379 | Probe #5858 used t |
| c 856 | 10.4 | 52.0 | 51 | 22 | AA030580 | Human SNP oligonuc | c 929 | 10.4 | 52.0 | 85 | 17 | AA014472 | Human secreted pro |
| c 857 | 10.4 | 52.0 | 51 | 22 | AA030921 | Human SNP oligonuc | c 930 | 10.4 | 52.0 | 86 | 16 | AA003363 | Mouse IGE binding |
| c 858 | 10.4 | 52.0 | 51 | 22 | AA032621 | Human SNP oligonuc | c 931 | 10.4 | 52.0 | 86 | 22 | AA070949 | Family 4 bcrf DNA |
| c 859 | 10.4 | 52.0 | 51 | 22 | AA033496 | Human silent SNP c | c 932 | 10.4 | 52.0 | 87 | 22 | AA073751 | bcrf DNA ligand #8 |
| c 860 | 10.4 | 52.0 | 51 | 22 | AA033497 | Human silent SNP c | c 933 | 10.4 | 52.0 | 89 | 20 | AA082653 | HGF nucleic acid 1 |
| c 861 | 10.4 | 52.0 | 51 | 22 | AA033656 | Human silent SNP c | c 934 | 10.4 | 52.0 | 90 | 20 | AA082653 | Oligonucleotide us |
| c 862 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 935 | 10.4 | 52.0 | 91 | 22 | AA087405 | Hepatocellular car |
| c 863 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 936 | 10.4 | 52.0 | 91 | 22 | AA087405 | Human brain expres |
| c 864 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 937 | 10.4 | 52.0 | 91 | 22 | AA032558 | Probe #12491 for g |
| c 865 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 938 | 10.4 | 52.0 | 92 | 21 | AA032558 | Probe #16534 used |
| c 866 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 939 | 10.4 | 52.0 | 92 | 21 | AA032558 | Human secreted pro |
| c 867 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 940 | 10.4 | 52.0 | 92 | 21 | AA032558 | Human secreted pro |
| c 868 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 941 | 10.4 | 52.0 | 93 | 19 | AA032558 | Probe #15041 for g |
| c 869 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 942 | 10.4 | 52.0 | 93 | 19 | AA032558 | DNA sequence of pr |
| c 870 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 943 | 10.4 | 52.0 | 93 | 21 | AA032558 | Prostate tumour sp |
| c 871 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 944 | 10.4 | 52.0 | 93 | 21 | AA032558 | Human immunogenic |
| c 872 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 945 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human prostate CDN |
| c 873 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human silent SNP c | c 946 | 10.4 | 52.0 | 93 | 22 | AA032558 | Androgen responsiv |
| c 874 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human structural p | c 947 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human prostate tum |
| c 875 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human DNA containi | c 948 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human prostate-spe |
| c 876 | 10.4 | 52.0 | 51 | 22 | AA033657 | Human DNA containi | c 949 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human cell death p |
| c 877 | 10.4 | 52.0 | 51 | 23 | AA033657 | Human silent nonco | c 950 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human prostate-spe |
| c 878 | 10.4 | 52.0 | 51 | 23 | AA033657 | Human silent nonco | c 951 | 10.4 | 52.0 | 93 | 22 | AA032558 | Prostate tumour an |
| c 879 | 10.4 | 52.0 | 51 | 23 | AA033657 | Human silent nonco | c 952 | 10.4 | 52.0 | 93 | 22 | AA032558 | Human prostate can |
| c 880 | 10.4 | 52.0 | 53 | 21 | AA033657 | Primer P233 to amp | c 953 | 10.4 | 52.0 | 96 | 22 | AA032558 | Human breast cell |
| c 881 | 10.4 | 52.0 | 54 | 17 | AA033657 | Human CTRP hairpin | c 954 | 10.4 | 52.0 | 96 | 22 | AA032558 | Human foetal liver |
| c 882 | 10.4 | 52.0 | 54 | 18 | AA033657 | Mouse flt-1 vegf r | c 955 | 10.4 | 52.0 | 96 | 22 | AA032558 | Probe #10741 for g |
| c 883 | 10.4 | 52.0 | 54 | 21 | AA033657 | Arabidopsis thalia | c 956 | 10.4 | 52.0 | 96 | 22 | AA032558 | Human brain expres |
| c 884 | 10.4 | 52.0 | 55 | 21 | AA033657 | Human secreted pro | c 957 | 10.4 | 52.0 | 96 | 22 | AA032558 | Human bone marrow |
| c 885 | 10.4 | 52.0 | 56 | 20 | AA033657 | Transcribed oligon | c 958 | 10.4 | 52.0 | 96 | 22 | AA032558 | Probe #14030 used |

XX (METH-) METHYLENE INC.
XX Delorme D, Woo SH, Vaisburg A;
XX WPI; 2001-639108/73.
XX An inhibitor of histone deacetylase for the treatment of cell
PT proliferation diseases and conditions such as cancer, restenosis or
PT psoriasis or preventing protozoal or fungal disease or infections -
XX
XX Disclosure; Page 54; 241pp; English.
XX The present invention relates to compounds and methods for inhibiting
CC histone deacetylase (HDAC) enzymatic activity. Compounds of the
CC invention are used for the treatment of cell proliferative diseases
CC and conditions such as cancer, restenosis or psoriasis. They are
CC also used for treating or preventing protozoal or fungal disease
CC or infections. The present sequence is antisense oligonucleotide,
CC HDAC1 AS1 which is targeted to the 3' untranslated region (UTR)
CC of human HDAC1 to inhibit its enzymatic activity.
XX
XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gaacgtgagggactcagca 20
Db 1 gaacgtgagggactcagca 20

RESULT 3
AAH43111
ID AAH43111 standard; DNA; 20 BP.
XX
XX AAH43111:
AC
XX
XX 15-SEP-2001 (first entry)
DT
XX
XX Antisense oligo, target HDAC-1 1585-1604.
DE
XX
XX Antisense: histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
KM cell proliferation; cancer; restenosis; psoriasis; protozoal infection;
WM fungal infections; ss.
XX
XX Synthetic.
DS
XX
XX WO200138322-A1.
PN
XX
XX 31-MAY-2001.
PD
XX
XX 22-NOV-2000; 2000WO-1B01881.
PF
XX
XX 23-NOV-1999; 99US-0167035.
PR
XX
XX (METH-) METHYLENE INC.
PA
XX
XX Delorme D, Ruel R, Lavoie R, Thibault C, Abou-Khalil E;
PI
XX
XX WPI; 2001-432601/46.
DR
XX
XX
XX New inhibitors of histone deacetylase e.g.
PT N-hydroxy-5-(4-(benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for
PT treating cancer, restenosis or fungal infections -
XX
XX Disclosure; Page 40; 147pp; English.
PS
XX
XX The sequences given in AAH43102-14 are oligonucleotides which are
CC antisense to the histone deacetylase gene, HDAC-1. These
CC oligonucleotides may be used in combination with an inhibitor of

CC histone deacetylase enzyme function, to given an improved inhibitory
CC effect, thereby reducing the amount of inhibitor required to obtain a
CC given inhibitory effect. Compounds containing these oligonucleotides
CC may be used to treat cell proliferation conditions such as cancer,
CC restenosis or psoriasis. They can also be used to treat protozoal
CC and fungal infections.
XX
XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gaacgtgagggactcagca 20
Db 1 gaacgtgagggactcagca 20

RESULT 4
AAC89531
ID AAC89531 standard; DNA; 20 BP.
XX
XX AAC89531:
AC
XX
XX 08-MAR-2001 (first entry)
DE
XX
XX Human HDAC-1 PCR primer SEQ ID NO: 1.
DE
XX
XX Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
KM HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
KW gene therapy; PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200071703-A2.
PN
XX
XX 30-NOV-2000.
PD
XX
XX 03-MAY-2000; 2000WO-1B01252.
PF
XX
XX 03-MAY-1999; 99US-0132287.
PR
XX
XX (METH-) METHYLENE INC.
PA
XX
XX Macleod AR, Li Z, Besterman JM;
PI
XX
XX WPI; 2001-016407/02.
DR
XX
XX Antisense oligonucleotide that inhibits expression of a histone
PT deacetylase, useful for treating and/or alleviating the symptoms of
PT neoplasia, or for inhibiting neoplastic cell growth in an animal -
PT
XX
XX Example 2; Page 12; 125pp; English.
XX
XX The present invention provides inhibitors of histone deacetylase enzymes
CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
CC inhibitors may be antisense strands or they may be compounds identified
CC by contacting the enzyme with the compound and measuring the resulting
CC enzyme activity. These inhibitors are useful for treating cancers and for
CC identifying which histone deacetylase is involved in a neoplasia.
XX
XX Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 22; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gaacgtgagggactcagca 20
Db 1 gaacgtgagggactcagca 20

| | |
|---|---|
| RESULT | 5 |
| AAC89540 | standard; DNA; 20 BP. |
| XX | |
| AC | AAC89540; |
| XX | |
| D7 | 08-MAR-2001 (first entry) |
| XX | |
| DE | Human HDAC-1 antisense sequence SEQ ID NO: 10. |
| HDAC-1 | antisense sequence SEQ ID NO: 10. |
| Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C; | |
| HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense; | |
| gene therapy; PCR primer; ss. | |
| OS | Homo sapiens. |
| XX | |
| PN | WO200071703-A2. |
| PD | |
| 30-NOV-2000. | |
| 03-MAY-2000; 2000WO-IB01252; | |
| 03-MAY-1999; 99US-0132287; | |
| (METH-) METHYLENE INC. | |
| Macleod AR, Li Z, Besterman JM; | |
| WPI; 2001-016407/02. | |
| Antisense oligonucleotide that inhibits expression of a histone | |
| deacetylase, useful for treating and/or alleviating the symptoms of | |
| neoplasia, or for inhibiting neoplastic cell growth in an animal - | |
| Example 1; Page 23; 125pp; English. | |
| The present invention provides inhibitors of histone deacetylase enzymes | |
| such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These | |
| inhibitors may be antisense strands or they may be compounds identified | |
| by contacting the enzyme with the compound and measuring the resulting | |
| enzyme activity. These inhibitors are useful for treating cancers and for | |
| identifying which histone deacetylase is involved in a neoplasia. | |
| Sequence 20/BP; 7 A; 4 C; 7 G; 2 T; 0 other; | |
| Query Match | 100.0%; |
| Best Local Similarity | 100.0%; |
| Matches 20; Conservative | 0; Mismatches 0; Indels 0; Gaps 0; |
| 1 gaacgtgaggactcaaga 20 | |
| | |
| X gaacgtgaggactcaaga 20 | |
| RESULT | 6 |
| AAT80511 | |
| ID | AAT80511 standard; DNA; 49 BP. |
| XX | |
| AC | AAT80511; |
| XX | |
| D7 | 31-OCT-1997 (first entry) |
| XX | |
| DE | Hepatoma AS-30D Type II hexokinase promoter fragment from +276. |
| KM | Response element; Z-DNA; neoplasia; hexokinase II; glycolysis; |
| XX | cancer; gene therapy; diabetes; tumour; rat; ss. |
| OS | Rattus rattus. |
| XX | |
| FN | W09704104-A2. |
| XX | |

[illegible]

PA (BART/) BARTON K A.
PA (MILL/) MILLER M J.
XX Barton KA, Miller MJ;
XX WPI; 2001-366928/38.
XX
XX
XX Improving the expression of foreign genes in plants by selecting codons
PT which are preferentially expressed in plant cells, useful e.g. for the
PT production of delta endotoxin crystal from *Bacillus thuringiensis* -
XX
XX Examples; Fig 5; 14pp; English.
XX
XX The invention provides a method for improving the expression of foreign
CC genes in plants, by analyzing which codons are preferentially expressed
CC in plant cells and synthesizing variants of the foreign genes so that
CC they contain the preferentially expressed codons. The method is used for
CC improving the efficiency of expression of foreign genes in plants. It is
CC particularly useful for producing the delta-endotoxin crystal protein
CC from *Bacillus thuringiensis* which is only expressed at low levels when
CC the native coding sequence is transformed into plant cells. The method
CC may be used for the production of e.g. genes encoding toxins for the
CC control of insects, genes conferring viral or other pathogen disease
CC resistance and genes coding for resistance to specific herbicides and
CC antibiotics. The method may be used for the efficient construction of
CC plant genes to obtain high, steady-state levels of transcription and
CC expression. Sequences AAH76160-170 represent oligonucleotides used for
CC constructing a plasmid pAMVBT4 containing a synthetic coding sequence
CC fragment of *B. thuringiensis* delta-endotoxin crystal protein.
CC
XX
SQ Sequence 49 BP; 12 A; 16 C; 11 G; 10 T; 0 other;

Query Match 71.0%; Score 14.2; DB 22; Length 49;
Best Local Similarity 84.2%; Pred. No. 4.9e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 aaacgtagggactcagca 20
1 ||||||| |||||
Db 3 agacttagggcctcagca 21

RESULT 8
AAH76160
ID AAH76160 standard; DNA: 52 BP.
XX
XX AAH76160;
XX
XX 29-OCT-2001 (first entry)
XX
XX Plasmid pAMVBT4 constructing oligonucleotide.
DE
XX
XX Foreign gene; delta-endotoxin crystal protein; toxin; insect control;
KW viral; pathogen; disease resistance; transcription; ss.
XX
XX Synthetic.
OS *Bacillus thuringiensis*.
XX
XX US2001003849-A1.
XX
XX 14-JUN-2001.
XX
XX 17-APR-1998; 98US-0062104.
XX
XX 30-JAN-1992; 92US-0827906.
PR 07-AUG-1989; 89US-0390561.
XX
XX (BART/) BARTON K A.
PA (MILL/) MILLER M J.
XX Barton KA, Miller MJ;
XX WPI; 2001-366928/38.
DR

XX
XX Improving the expression of foreign genes in plants by selecting codons
PT which are preferentially expressed in plant cells, useful e.g. for the
PT production of delta endotoxin crystal from *Bacillus thuringiensis* -
XX
XX Examples; Fig 5; 14pp; English.
XX

XX The invention provides a method for improving the expression of foreign
CC genes in plants, by analyzing which codons are preferentially expressed
CC in plant cells and synthesizing variants of the foreign genes so that
CC they contain the preferentially expressed codons. The method is used for
CC improving the efficiency of expression of foreign genes in plants. It is
CC particularly useful for producing the delta-endotoxin crystal protein
CC from *Bacillus thuringiensis* which is only expressed at low levels when
CC the native coding sequence is transformed into plant cells. The method
CC may be used for the production of e.g. genes encoding toxins for the
CC control of insects, genes conferring viral or other pathogen disease
CC resistance and genes coding for resistance to specific herbicides and
CC antibiotics. The method may be used for the efficient construction of
CC plant genes to obtain high, steady-state levels of transcription and
CC expression. Sequences AAH76160-170 represent oligonucleotides used for
CC constructing a plasmid pAMVBT4 containing a synthetic coding sequence
CC fragment of *B. thuringiensis* delta-endotoxin crystal protein.
CC
XX
SQ Sequence 52 BP; 12 A; 17 C; 12 G; 11 T; 0 other;

Query Match 71.0%; Score 14.2; DB 22; Length 52;
Best Local Similarity 84.2%; Pred. No. 4.9e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 aaacgtagggactcagca 20
1 ||||||| |||||
Db 6 agacttagggcctcagca 24

RESULT 9
AAH76163
ID AAH76163 standard; DNA: 52 BP.
XX
XX AAH76163;
XX
XX 29-OCT-2001 (first entry)
XX
XX Plasmid pAMVBT4 constructing oligonucleotide.
DE
XX
XX Foreign gene; delta-endotoxin crystal protein; toxin; insect control;
KW viral; pathogen; disease resistance; transcription; ss.
XX
XX Synthetic.
OS *Bacillus thuringiensis*.
XX
XX US2001003849-A1.
XX
XX 14-JUN-2001.
XX
XX 17-APR-1998; 98US-0062104.
XX
XX 30-JAN-1992; 92US-0827906.
PR 07-AUG-1989; 89US-0390561.
XX
XX (BART/) BARTON K A.
PA (MILL/) MILLER M J.
XX Barton KA, Miller MJ;
XX WPI; 2001-366928/38.
XX
XX Improving the expression of foreign genes in plants by selecting codons
PT which are preferentially expressed in plant cells, useful e.g. for the
PT production of delta endotoxin crystal from *Bacillus thuringiensis* -
XX
XX Examples; Fig 5; 14pp; English.
PS

CC antibiotics. The method may be used for the efficient construction of
CC plant genes to obtain high, steady-state levels of transcription and
CC expression. Sequences AAH76160-170 represent oligonucleotides used for
CC constructing a plasmid pAMVBR4 containing a synthetic coding sequence
CC fragment of B. thuringiensis delta-endotoxin crystal protein.
CC
XX

Sequence 45 BP; 9 A; 10 C; 15 G; 11 T; 0 other;

Query Match

Best Local Similarity 69.0%; Score 13.8; DB 22; Length 45;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 4 acgtgaggactcagca 20
|| ||||| |||||
DB 45 ACTTGAGGCGCTCAGCA 29

RESULT 12

AA01744/c
ID AA01744 standard; DNA: 20 BP.

AC AA01744;

DT 24-SEP-2001 (first entry)

XX Human AAG6 DNA exon 1.10 amplifying reverse PCR primer #10.

XX Human: asthma-associated gene; AAG6; antiinflammatory; gene therapy;

KW obstructive airway disease; asthma; chronic bronchitis; eosinophila;

KW adult respiratory distress syndrome; ARDS; dyspnoea; emphysema; COPD;

KW COAD; chronic obstructive or pulmonary disease; pneumoconiosis;

KW eosinophil related disorder; bronchopulmonary aspergillosis;

KW Lofler's syndrome; polyarteritis nodosa; PCR primer; ss.

XX Homo sapiens.

XX MO200155214-A2.

XX 02-AUG-2001.

XX 23-JAN-2001; 2001MO-EP00719.

XX 25-JAN-2000; 2000US-0490616.

PA (NOVS) NOVARTIS AG.

PA (NOVS) NOVARTIS-ERFINDUNGEN VERW GES MBH.

PI Whittaker PA, Jones SJ, Hanley MR;

XX WPI; 2001-457719/49.

DR Novel polypeptide AAG6 useful for treating an inflammatory or

XX obstructive airways disease, e.g., asthma

XX Example 2; Page 26; 62pp; English.

XX The invention relates to human asthma-associated gene designated as

XX AAG6. AAG6 is used in the diagnosis, prognosis and treatment of

XX inflammatory or obstructive airway diseases such as asthma, adult

XX respiratory distress syndrome (ARDS), chronic obstructive or pulmonary

XX disease (COPD or COAD), chronic bronchitis, dyspnoea, emphysema and

XX pneumonia. AAG6 is also used in the treatment of eosinophil related

XX disorders such as eosinophila, eosinophilic pneumonia, Lofler's

XX syndrome, bronchopulmonary aspergillosis, polyarteritis nodosa and

XX eosinophilic granuloma. AAG6 DNA is useful in gene therapy.

XX The present sequence is a PCR primer used for amplifying human AAG6 DNA.

XX Sequence 20 BP; 2 A; 7 C; 6 G; 5 T; 0 other;

Query Match 67.0%; Score 13.4; DB 22; Length 20;

Best Local Similarity 93.3%; Pred. No. 1.1e+03;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 acgtgaggactcag 18

DB 15 ACCTGAGGACTCAG 1

RESULT 13

AAZ50158/c
ID AAZ50158 standard; DNA: 24 BP.

AC AAZ50158;

DT 04-MAY-2000 (first entry)

DE Reverse primer RP3 used in 5' RACE of A. thaliana MIM cDNA.

XX MIM; recombination; plant; DNA repair; hypersensitivity;

KW SMC protein family; Structural Maintenance of Chromosome; MMS;

KW methyl methanesulphonate; irradiation; mitomycin C; PCR primer; ss.

XX Arabidopsis thaliana.

XX WO200004174-A1.

XX 27-JAN-2000.

XX 14-JUL-1999; 99WO-EP04984.

XX 16-JUL-1998; 98GB-0015485.

XX 14-JAN-1999; 99GB-0000760.

XX (NOVS) NOVARTIS AG.

XX (NOVS) NOVARTIS-ERFINDUNGEN VERW GES MBH.

XX Mengiste T, Paszkowski J;

XX WPI; 2000-182437/16.

XX New Arabidopsis polynucleotide encoding protein useful for assisting

XX recombinant repair of DNA damage in plants

XX Example 2; Page 9; 30pp; English.

XX The patent relates to DNA encoding MIM protein from A. thaliana which

XX contributes to recombination repair of DNA damage in plant cells. The

XX protein shows homology to a member of SMC (Structural Maintenance of

XX Chromosomes) protein family and confers hypersensitivity to treatment

XX with MMS, X-rays, UV light or mitomycin C.

XX The present sequence is a reverse primer RP3 used in 5' RACE to

XX reamplify the PCR product obtained by amplification of Arabidopsis

XX MIM cDNA 5' end tailed with a homopolymeric A-tail. The resulting PCR

XX product is used to identify the missing 5' portion of MIM cDNA.

XX Sequence 24 BP; 3 A; 10 C; 7 G; 4 T; 0 other;

Query Match 67.0%; Score 13.4; DB 21; Length 24;

Best Local Similarity 93.3%; Pred. No. 1.2e+03;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 cgtgaggactcagc 19

DB 23 CGAGAGGAGCTCAGC 9

RESULT 14

AAI78420/c
ID AAI78420 standard; DNA: 51 BP.

AC AAI78420;

DT 09-NOV-2001 (first entry)

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 01:19:19 ; Search time 89.55 Seconds
(without alignments)
54.860 Million cell updates/sec

Title: US-09-817-538-17

Perfect score: 20

Sequence: 1 gaacgtgagcagca 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 613726

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Issued_Patents_MN:*
1: /cgn2_6/prodata/2/1na/5A_COMB.seq:*
2: /cgn2_6/prodata/2/1na/5B_COMB.seq:*
3: /cgn2_6/prodata/2/1na/6A_COMB.seq:*
4: /cgn2_6/prodata/2/1na/6B_COMB.seq:*
5: /cgn2_6/prodata/2/1na/PCTUS_COMB.seq:*
6: /cgn2_6/prodata/2/1na/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|---------------------|
| 1 | 12.8 | 64.0 | 20 | 4 | US-09-103-875-107 |
| 2 | 12.6 | 63.0 | 22 | 2 | US-08-117-952-266 |
| 3 | 12.6 | 63.0 | 35 | 5 | PCT-US95-12624-8 |
| 4 | 12.6 | 63.0 | 51 | 1 | US-07-994-469A-32 |
| 5 | 12.6 | 63.0 | 85 | 1 | US-07-964-624D-55 |
| 6 | 12.6 | 63.0 | 85 | 1 | US-08-442-062-55 |
| 7 | 12.6 | 63.0 | 85 | 1 | US-08-748-697A-55 |
| 8 | 12.6 | 63.0 | 85 | 1 | US-09-165-616-55 |
| 9 | 12.6 | 62.0 | 29 | 4 | US-08-712-241-19 |
| 10 | 12.4 | 62.0 | 32 | 1 | US-08-712-241-18 |
| 11 | 12.4 | 61.0 | 33 | 1 | US-08-115-052-2 |
| 12 | 12.2 | 61.0 | 40 | 2 | US-08-723-306-13 |
| 13 | 12.2 | 61.0 | 40 | 5 | PCT-US96-10041-13 |
| 14 | 12.2 | 61.0 | 70 | 1 | US-08-374-641-1 |
| 15 | 12.2 | 61.0 | 70 | 1 | US-08-997-080-72 |
| 16 | 12.0 | 60.0 | 32 | 2 | US-08-997-362-72 |
| 17 | 12.0 | 60.0 | 32 | 4 | US-08-873-970-72 |
| 18 | 12.0 | 60.0 | 32 | 4 | US-09-095-855-72 |
| 19 | 12.0 | 60.0 | 32 | 4 | US-09-324-542-72 |
| 20 | 12.0 | 60.0 | 38 | 1 | US-08-144-602B-24 |
| 21 | 12.0 | 60.0 | 38 | 1 | US-08-599-252-73 |
| 22 | 12.0 | 60.0 | 38 | 1 | US-08-436-074-46 |
| 23 | 12.0 | 60.0 | 38 | 5 | PCT-US96-06352-73 |
| 24 | 12.0 | 60.0 | 38 | 5 | PCT-US96-06352-73 |
| 25 | 12.0 | 60.0 | 38 | 5 | PCT-US96-06352-73 |
| 26 | 12.0 | 60.0 | 54 | 2 | US-08-585-684B-2533 |
| 27 | 12.0 | 60.0 | 54 | 2 | US-09-038-073-2533 |

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| 28 | 12 | 60.0 | 60 | 1 | US-08-484-192-174 | Sequence 174, App |
| 29 | 12 | 60.0 | 70 | 1 | US-08-144-602B-13 | Sequence 13, Appl |
| 30 | 12 | 60.0 | 70 | 1 | US-08-144-602B-17 | Sequence 17, Appl |
| 31 | 12 | 60.0 | 86 | 4 | US-08-687-421-110 | Sequence 410, App |
| 32 | 11.8 | 59.0 | 17 | 1 | US-08-390-850-547 | Sequence 547, App |
| 33 | 11.8 | 59.0 | 17 | 1 | US-08-435-634-547 | Sequence 547, App |
| 34 | 11.8 | 59.0 | 17 | 4 | US-08-584-040-2350 | Sequence 2350, Ap |
| 35 | 11.8 | 59.0 | 25 | 3 | US-09-136-419-3 | Sequence 3, Appl1 |
| 36 | 11.8 | 59.0 | 33 | 3 | US-08-793-408-10 | Sequence 10, Appl |
| 37 | 11.8 | 59.0 | 33 | 3 | US-08-139-762A-10 | Sequence 10, Appl |
| 38 | 11.8 | 59.0 | 33 | 3 | US-09-073-569-14 | Sequence 14, Appl |
| 39 | 11.8 | 59.0 | 36 | 2 | US-08-439-818A-17 | Sequence 17, Appl |
| 40 | 11.8 | 59.0 | 36 | 2 | US-08-751-965-17 | Sequence 17, Appl |
| 41 | 11.8 | 59.0 | 36 | 2 | US-08-728-975-17 | Sequence 17, Appl |
| 42 | 11.8 | 59.0 | 36 | 2 | US-08-728-975-17 | Sequence 17, Appl |
| 43 | 11.8 | 59.0 | 36 | 3 | US-08-808-599A-17 | Sequence 17, Appl |
| 44 | 11.8 | 59.0 | 52 | 1 | US-08-018-129-16 | Sequence 16, Appl |
| 45 | 11.8 | 59.0 | 52 | 2 | US-08-448-120-16 | Sequence 16, Appl |
| 46 | 11.6 | 58.0 | 19 | 1 | US-08-487-135B-18 | Sequence 18, Appl |
| 47 | 11.6 | 58.0 | 19 | 2 | US-08-389-360-8 | Sequence 8, Appl1 |
| 48 | 11.6 | 58.0 | 19 | 2 | US-08-845-998-15 | Sequence 15, Appl |
| 49 | 11.6 | 58.0 | 19 | 2 | US-08-915-972A-18 | Sequence 18, Appl |
| 50 | 11.6 | 58.0 | 19 | 2 | US-09-177-909-18 | Sequence 18, Appl |
| 51 | 11.6 | 58.0 | 19 | 3 | US-09-064-964-7 | Sequence 7, Appl1 |
| 52 | 11.6 | 58.0 | 19 | 3 | US-09-064-964-11 | Sequence 11, Appl |
| 53 | 11.6 | 58.0 | 19 | 3 | US-09-038-328-8 | Sequence 8, Appl1 |
| 54 | 11.6 | 58.0 | 19 | 3 | US-09-206-537-15 | Sequence 15, Appl |
| 55 | 11.6 | 58.0 | 19 | 4 | US-09-430-854-15 | Sequence 15, Appl |
| 56 | 11.6 | 58.0 | 20 | 4 | US-09-487-368A-197 | Sequence 197, App |
| 57 | 11.6 | 58.0 | 29 | 1 | US-08-471-206-18 | Sequence 28, Appl |
| 58 | 11.6 | 58.0 | 29 | 1 | US-08-281-025D-22 | Sequence 22, Appl |
| 59 | 11.6 | 58.0 | 30 | 4 | US-09-494-252-3 | Sequence 3, Appl1 |
| 60 | 11.6 | 58.0 | 34 | 4 | US-08-646-265A-31 | Sequence 31, Appl |
| 61 | 11.6 | 58.0 | 35 | 1 | US-07-795-859B-37 | Sequence 37, Appl |
| 62 | 11.6 | 58.0 | 35 | 1 | US-08-457-616-37 | Sequence 37, Appl |
| 63 | 11.6 | 58.0 | 36 | 4 | US-09-041-878-2 | Sequence 2, Appl1 |
| 64 | 11.6 | 58.0 | 38 | 4 | US-09-386-607-4 | Sequence 4, Appl1 |
| 65 | 11.6 | 58.0 | 51 | 1 | US-07-994-469A-42 | Sequence 42, Appl |
| 66 | 11.6 | 58.0 | 52 | 1 | US-08-418-444A-13 | Sequence 13, Appl |
| 67 | 11.6 | 58.0 | 65 | 1 | US-08-349-867-13 | Sequence 13, Appl |
| 68 | 11.6 | 58.0 | 65 | 1 | US-08-239-476-13 | Sequence 13, Appl |
| 69 | 11.6 | 58.0 | 65 | 1 | US-08-598-305A-13 | Sequence 13, Appl |
| 70 | 11.6 | 58.0 | 65 | 2 | US-08-639-923A-13 | Sequence 13, Appl |
| 71 | 11.6 | 58.0 | 65 | 5 | PCT-US95-05431-13 | Patent No. 5268278 |
| 72 | 11.6 | 58.0 | 77 | 6 | US-08-317-413A-7 | Sequence 7, Appl1 |
| 73 | 11.4 | 57.0 | 18 | 1 | US-08-348-548-29 | Sequence 29, Appl |
| 74 | 11.4 | 57.0 | 28 | 5 | PCT-US95-15716-29 | Sequence 29, Appl |
| 75 | 11.4 | 57.0 | 30 | 1 | US-08-246-982A-3 | Sequence 3, Appl1 |
| 76 | 11.4 | 57.0 | 30 | 1 | US-08-453-265-3 | Sequence 3, Appl1 |
| 77 | 11.4 | 57.0 | 39 | 2 | US-08-718-964-4 | Sequence 4, Appl1 |
| 78 | 11.4 | 57.0 | 39 | 2 | US-09-059-964A-4 | Sequence 4, Appl1 |
| 79 | 11.4 | 57.0 | 39 | 2 | US-08-842-341-4 | Sequence 4, Appl1 |
| 80 | 11.4 | 57.0 | 58 | 1 | US-08-530-492-49 | Sequence 49, Appl |
| 81 | 11.4 | 57.0 | 58 | 4 | US-08-906-517-49 | Sequence 49, Appl |
| 82 | 11.4 | 57.0 | 70 | 1 | US-07-982-712-6 | Sequence 6, Appl1 |
| 83 | 11.4 | 57.0 | 21 | 2 | US-08-318-837-36 | Sequence 36, Appl |
| 84 | 11.2 | 56.0 | 21 | 3 | US-09-116-224-6 | Sequence 6, Appl1 |
| 85 | 11.2 | 56.0 | 24 | 4 | US-08-711-417C-171 | Sequence 171, App |
| 86 | 11.2 | 56.0 | 25 | 2 | US-08-318-837-45 | Sequence 45, Appl |
| 87 | 11.2 | 56.0 | 35 | 1 | US-08-646-605-1 | Sequence 1, Appl1 |
| 88 | 11.2 | 56.0 | 35 | 2 | US-08-566-853A-1 | Sequence 1, Appl1 |
| 89 | 11.2 | 56.0 | 35 | 2 | US-08-413-813-40 | Sequence 40, Appl |
| 90 | 11.2 | 56.0 | 36 | 2 | US-08-467-346-40 | Sequence 40, Appl |
| 91 | 11.2 | 56.0 | 36 | 2 | US-08-924-635A-28 | Sequence 28, Appl |
| 92 | 11.2 | 56.0 | 39 | 1 | US-08-291-896-6 | Sequence 6, Appl1 |
| 93 | 11.2 | 56.0 | 39 | 1 | US-08-488-278-6 | Sequence 6, Appl1 |
| 94 | 11.2 | 56.0 | 39 | 4 | US-09-262-773-141 | Sequence 141, App |
| 95 | 11.2 | 56.0 | 41 | 1 | US-08-356-405-12 | Sequence 12, Appl |
| 96 | 11.2 | 56.0 | 53 | 1 | US-08-184-607-9 | Sequence 9, Appl1 |
| 97 | 11.2 | 56.0 | 53 | 1 | US-08-184-607-12 | Sequence 12, Appl |
| 98 | 11.2 | 56.0 | 87 | 2 | US-08-488-402A-98 | Sequence 98, Appl |
| 99 | 11.2 | 56.0 | 87 | 2 | US-08-484-552A-98 | Sequence 98, Appl |
| 100 | 11.2 | 56.0 | 87 | 2 | US-08-484-552A-98 | Sequence 98, Appl |

| | | | | | | | | | | | | | |
|-------|------|------|----|---|---------------------|-------------------|-------|------|------|----|---|--------------------|-------------------|
| C 101 | 11.2 | 56.0 | 87 | 5 | PCT-US96-09472-98 | Sequence 98, Appl | 174 | 10.8 | 54.0 | 24 | 2 | US-08-488-209B-44 | Sequence 44, Appl |
| C 102 | 11.2 | 56.0 | 96 | 1 | US-08-329-412A-30 | Sequence 80, Appl | 175 | 10.8 | 54.0 | 24 | 2 | US-08-408-011-44 | Sequence 44, Appl |
| C 103 | 11 | 55.0 | 19 | 2 | US-08-229-528-36 | Sequence 36, Appl | C 176 | 10.8 | 54.0 | 27 | 4 | US-08-584-040-7080 | Sequence 7080, Ap |
| C 104 | 11 | 55.0 | 20 | 4 | US-09-011-197-10 | Sequence 10, Appl | C 177 | 10.8 | 54.0 | 28 | 2 | US-08-859-998-1109 | Sequence 1109, Ap |
| C 105 | 11 | 55.0 | 21 | 2 | US-08-403-888A-65 | Sequence 65, Appl | C 178 | 10.8 | 54.0 | 28 | 4 | US-09-225-928-1109 | Sequence 1109, Ap |
| C 106 | 11 | 55.0 | 21 | 2 | US-08-403-888A-79 | Sequence 79, Appl | C 179 | 10.8 | 54.0 | 29 | 1 | US-08-317-5 | Sequence 5, Appl |
| C 107 | 11 | 55.0 | 26 | 2 | US-08-553-501A-37 | Sequence 37, Appl | C 180 | 10.8 | 54.0 | 29 | 1 | US-08-351-147-5 | Sequence 5, Appl |
| C 108 | 11 | 55.0 | 26 | 3 | US-09-205-231-37 | Sequence 37, Appl | C 181 | 10.8 | 54.0 | 29 | 1 | US-08-471-154-5 | Sequence 5, Appl |
| C 109 | 11 | 55.0 | 26 | 4 | US-08-646-265A-35 | Sequence 35, Appl | C 182 | 10.8 | 54.0 | 30 | 2 | US-08-678-039A-71 | Sequence 21, Appl |
| C 110 | 11 | 55.0 | 29 | 4 | US-09-522-217-31 | Sequence 31, Appl | C 183 | 10.8 | 54.0 | 31 | 2 | US-08-859-998-198 | Sequence 198, App |
| C 111 | 11 | 55.0 | 30 | 1 | US-08-150-331-13 | Sequence 13, Appl | C 184 | 10.8 | 54.0 | 31 | 4 | US-09-225-928-198 | Sequence 198, App |
| C 112 | 11 | 55.0 | 30 | 1 | US-08-244-376-14 | Sequence 14, Appl | C 185 | 10.8 | 54.0 | 33 | 1 | US-08-138-608-13 | Sequence 13, Appl |
| C 113 | 11 | 55.0 | 30 | 3 | US-08-946-138-25 | Sequence 25, Appl | C 186 | 10.8 | 54.0 | 36 | 1 | US-08-102-567-32 | Sequence 32, Appl |
| C 114 | 11 | 55.0 | 30 | 4 | US-09-130-546D-25 | Sequence 25, Appl | C 187 | 10.8 | 54.0 | 36 | 2 | US-08-467-244-4 | Sequence 4, Appl |
| C 115 | 11 | 55.0 | 30 | 5 | PCT-US93-11527-14 | Sequence 14, Appl | C 188 | 10.8 | 54.0 | 36 | 3 | US-08-462-947-32 | Sequence 32, Appl |
| C 116 | 11 | 55.0 | 31 | 1 | US-07-971-819A-43 | Sequence 43, Appl | C 189 | 10.8 | 54.0 | 44 | 1 | US-08-345-505A-9 | Sequence 9, Appl |
| C 117 | 11 | 55.0 | 31 | 1 | US-08-475-231-43 | Sequence 43, Appl | C 190 | 10.8 | 54.0 | 44 | 4 | US-09-082-649B-12 | Sequence 12, Appl |
| C 118 | 11 | 55.0 | 34 | 1 | US-08-688-649-1 | Sequence 1, Appl | C 191 | 10.8 | 54.0 | 44 | 4 | US-09-082-649B-13 | Sequence 13, Appl |
| C 119 | 11 | 55.0 | 41 | 4 | US-09-143-634-3 | Sequence 3, Appl | C 192 | 10.8 | 54.0 | 50 | 4 | US-09-431-131A-14 | Sequence 14, Appl |
| C 120 | 11 | 55.0 | 44 | 1 | US-08-314-439-6 | Sequence 6, Appl | C 193 | 10.8 | 54.0 | 65 | 3 | US-08-718-904-91 | Sequence 91, Appl |
| C 121 | 11 | 55.0 | 44 | 1 | US-08-536-123-6 | Sequence 6, Appl | C 194 | 10.8 | 54.0 | 69 | 3 | US-08-718-904-90 | Sequence 90, Appl |
| C 122 | 11 | 55.0 | 47 | 1 | US-08-171-389-198 | Sequence 198, App | C 195 | 10.8 | 54.0 | 71 | 4 | US-09-208-966-31 | Sequence 31, Appl |
| C 123 | 11 | 55.0 | 47 | 1 | US-08-123-936-198 | Sequence 198, App | C 196 | 10.8 | 54.0 | 75 | 4 | US-08-840-767-45 | Sequence 45, Appl |
| C 124 | 11 | 55.0 | 47 | 2 | US-08-475-228A-198 | Sequence 198, App | C 197 | 10.8 | 54.0 | 86 | 1 | US-07-964-624D-64 | Sequence 64, Appl |
| C 125 | 11 | 55.0 | 47 | 3 | US-08-482-080A-198 | Sequence 198, App | C 198 | 10.8 | 54.0 | 86 | 1 | US-08-442-062-64 | Sequence 64, Appl |
| C 126 | 11 | 55.0 | 47 | 5 | PCT-US93-12388-198 | Sequence 198, App | C 199 | 10.8 | 54.0 | 86 | 1 | US-08-748-697A-64 | Sequence 64, Appl |
| C 127 | 11 | 55.0 | 50 | 3 | US-08-589-939-64 | Sequence 64, Appl | C 200 | 10.8 | 54.0 | 86 | 4 | US-09-165-616-64 | Sequence 64, Appl |
| C 128 | 11 | 55.0 | 51 | 2 | US-08-535-116-11 | Sequence 11, Appl | C 201 | 10.8 | 54.0 | 87 | 1 | US-07-964-624D-78 | Sequence 78, Appl |
| C 129 | 11 | 55.0 | 51 | 3 | US-08-589-939-60 | Sequence 60, Appl | C 202 | 10.8 | 54.0 | 87 | 1 | US-08-442-062-78 | Sequence 78, Appl |
| C 130 | 11 | 55.0 | 55 | 1 | US-08-328-258-1 | Sequence 1, Appl | C 203 | 10.8 | 54.0 | 87 | 1 | US-08-748-697A-78 | Sequence 78, Appl |
| C 131 | 11 | 55.0 | 55 | 1 | US-08-328-258-2 | Sequence 2, Appl | C 204 | 10.8 | 54.0 | 87 | 4 | US-09-165-616-78 | Sequence 78, Appl |
| C 132 | 11 | 55.0 | 60 | 2 | US-08-237-973-18 | Sequence 18, Appl | C 205 | 10.8 | 54.0 | 17 | 4 | US-09-347-114A-68 | Sequence 68, Appl |
| C 133 | 11 | 55.0 | 60 | 3 | US-08-726-867A-4 | Sequence 4, Appl | C 206 | 10.6 | 53.0 | 17 | 4 | US-08-881-189B-8 | Sequence 8, Appl |
| C 134 | 11 | 55.0 | 60 | 4 | US-08-942-806A-4 | Sequence 4, Appl | C 207 | 10.6 | 53.0 | 17 | 4 | US-08-584-040-3864 | Sequence 3864, Ap |
| C 135 | 11 | 55.0 | 61 | 4 | US-08-687-421-389 | Sequence 389, App | C 208 | 10.6 | 53.0 | 18 | 3 | US-09-280-409-66 | Sequence 66, Appl |
| C 136 | 11 | 55.0 | 63 | 2 | US-08-535-116-12 | Sequence 12, Appl | C 209 | 10.6 | 53.0 | 18 | 3 | US-09-280-409-137 | Sequence 137, App |
| C 137 | 11 | 55.0 | 66 | 3 | US-08-532-896-21 | Sequence 21, Appl | C 210 | 10.6 | 53.0 | 19 | 3 | US-08-488-671-79 | Sequence 79, Appl |
| C 138 | 11 | 55.0 | 70 | 2 | US-08-488-402A-49 | Sequence 49, Appl | C 211 | 10.6 | 53.0 | 20 | 4 | US-09-313-932-121 | Sequence 121, App |
| C 139 | 11 | 55.0 | 70 | 2 | US-08-484-552A-49 | Sequence 49, Appl | C 212 | 10.6 | 53.0 | 20 | 4 | US-08-068-945A-9 | Sequence 9, Appl |
| C 140 | 11 | 55.0 | 70 | 5 | PCT-US96-09472-49 | Sequence 49, Appl | C 213 | 10.6 | 53.0 | 20 | 4 | US-08-442-806-9 | Sequence 10, Appl |
| C 141 | 11 | 55.0 | 71 | 2 | US-08-488-402A-47 | Sequence 47, Appl | C 214 | 10.6 | 53.0 | 20 | 3 | US-08-857-464-6 | Sequence 6, Appl |
| C 142 | 11 | 55.0 | 71 | 2 | US-08-484-552A-47 | Sequence 47, Appl | C 215 | 10.6 | 53.0 | 20 | 3 | US-09-166-186-121 | Sequence 121, App |
| C 143 | 11 | 55.0 | 71 | 5 | PCT-US96-09472-47 | Sequence 47, Appl | C 216 | 10.6 | 53.0 | 20 | 4 | US-09-488-671-79 | Sequence 79, Appl |
| C 144 | 11 | 55.0 | 72 | 1 | US-07-936-267A-3 | Sequence 3, Appl | C 217 | 10.6 | 53.0 | 20 | 4 | US-09-313-932-121 | Sequence 121, App |
| C 145 | 11 | 55.0 | 72 | 1 | US-07-936-267A-6 | Sequence 6, Appl | C 218 | 10.6 | 53.0 | 20 | 4 | US-09-313-932-450 | Sequence 450, App |
| C 146 | 11 | 55.0 | 72 | 1 | US-08-484-512A-3 | Sequence 3, Appl | C 219 | 10.6 | 53.0 | 20 | 4 | US-09-398-539A-10 | Sequence 10, Appl |
| C 147 | 11 | 55.0 | 72 | 1 | US-08-484-512A-6 | Sequence 6, Appl | C 220 | 10.6 | 53.0 | 21 | 4 | US-09-045-054-13 | Sequence 13, Appl |
| C 148 | 11 | 55.0 | 72 | 5 | PCT-US92-07357-3 | Sequence 3, Appl | C 221 | 10.6 | 53.0 | 21 | 4 | US-09-347-114A-6 | Sequence 6, Appl |
| C 149 | 11 | 55.0 | 72 | 5 | PCT-US92-07357-6 | Sequence 6, Appl | C 222 | 10.6 | 53.0 | 21 | 4 | US-08-483-554B-74 | Sequence 74, Appl |
| C 150 | 11 | 55.0 | 81 | 3 | US-08-075-520A-7 | Sequence 7, Appl | C 223 | 10.6 | 53.0 | 22 | 2 | US-08-410-654B-46 | Sequence 46, Appl |
| C 151 | 11 | 55.0 | 81 | 4 | US-08-687-421-381 | Sequence 381, App | C 224 | 10.6 | 53.0 | 22 | 2 | US-08-474-851-46 | Sequence 46, Appl |
| C 152 | 11 | 55.0 | 84 | 1 | US-07-936-267A-4 | Sequence 4, Appl | C 225 | 10.6 | 53.0 | 22 | 2 | US-08-481-560-46 | Sequence 46, Appl |
| C 153 | 11 | 55.0 | 84 | 1 | US-07-936-267A-7 | Sequence 7, Appl | C 226 | 10.6 | 53.0 | 24 | 4 | US-08-872-056-11 | Sequence 11, Appl |
| C 154 | 11 | 55.0 | 84 | 1 | US-08-484-512A-4 | Sequence 4, Appl | C 227 | 10.6 | 53.0 | 29 | 1 | US-08-447-168A-54 | Sequence 54, Appl |
| C 155 | 11 | 55.0 | 84 | 1 | US-08-484-512A-7 | Sequence 7, Appl | C 228 | 10.6 | 53.0 | 29 | 2 | US-08-233-012C-54 | Sequence 54, Appl |
| C 156 | 11 | 55.0 | 84 | 5 | PCT-US92-07357-4 | Sequence 4, Appl | C 229 | 10.6 | 53.0 | 30 | 1 | US-08-480-784-74 | Sequence 74, Appl |
| C 157 | 11 | 55.0 | 84 | 5 | PCT-US92-07357-7 | Sequence 7, Appl | C 230 | 10.6 | 53.0 | 30 | 1 | US-08-483-553-74 | Sequence 74, Appl |
| C 158 | 11 | 55.0 | 93 | 1 | US-08-202-054-3 | Sequence 3, Appl | C 231 | 10.6 | 53.0 | 30 | 1 | US-08-487-002-74 | Sequence 74, Appl |
| C 159 | 11 | 55.0 | 93 | 1 | US-08-446-923-3 | Sequence 3, Appl | C 232 | 10.6 | 53.0 | 30 | 1 | US-08-186-228-32 | Sequence 32, Appl |
| C 160 | 11 | 55.0 | 93 | 1 | US-07-859-453E-3 | Sequence 3, Appl | C 233 | 10.6 | 53.0 | 30 | 1 | US-08-483-554B-74 | Sequence 74, Appl |
| C 161 | 11 | 55.0 | 95 | 4 | US-08-952-793-270 | Sequence 270, App | C 234 | 10.6 | 53.0 | 30 | 1 | US-08-488-011B-74 | Sequence 74, Appl |
| C 162 | 11 | 55.0 | 95 | 5 | PCT-US96-09455A-270 | Sequence 270, App | C 235 | 10.6 | 53.0 | 30 | 2 | US-08-470-124-32 | Sequence 32, Appl |
| C 163 | 10.8 | 54.0 | 17 | 3 | US-08-648-263-10 | Sequence 10, Appl | C 236 | 10.6 | 53.0 | 30 | 4 | US-08-850-727-74 | Sequence 74, Appl |
| C 164 | 10.8 | 54.0 | 18 | 1 | US-08-311-486C-1075 | Sequence 1075, Ap | C 237 | 10.6 | 53.0 | 30 | 5 | PCT-US95-10202-74 | Sequence 74, Appl |
| C 165 | 10.8 | 54.0 | 18 | 4 | US-08-473-319-13 | Sequence 13, Appl | C 238 | 10.6 | 53.0 | 30 | 5 | PCT-US95-10203-74 | Sequence 74, Appl |
| C 166 | 10.8 | 54.0 | 20 | 1 | US-08-014-943A-16 | Sequence 16, Appl | C 239 | 10.6 | 53.0 | 30 | 5 | PCT-US95-10220-74 | Sequence 74, Appl |
| C 167 | 10.8 | 54.0 | 20 | 1 | US-08-486-421-39 | Sequence 39, Appl | C 240 | 10.6 | 53.0 | 31 | 1 | US-08-361-337-44 | Sequence 44, Appl |
| C 168 | 10.8 | 54.0 | 20 | 1 | US-08-470-911-39 | Sequence 39, Appl | C 241 | 10.6 | 53.0 | 31 | 1 | US-08-361-337-46 | Sequence 46, Appl |
| C 169 | 10.8 | 54.0 | 20 | 2 | US-08-486-809-39 | Sequence 39, Appl | C 242 | 10.6 | 53.0 | 33 | 1 | US-08-438-639-10 | Sequence 10, Appl |
| C 170 | 10.8 | 54.0 | 20 | 2 | US-09-166-186-91 | Sequence 91, Appl | C 243 | 10.6 | 53.0 | 33 | 1 | US-07-813-338A-10 | Sequence 10, Appl |
| C 171 | 10.8 | 54.0 | 20 | 4 | US-09-313-932-91 | Sequence 91, Appl | C 244 | 10.6 | 53.0 | 33 | 3 | US-08-441-997-85 | Sequence 85, Appl |
| C 172 | 10.8 | 54.0 | 24 | 1 | US-08-488-212A-44 | Sequence 44, Appl | C 245 | 10.6 | 53.0 | 33 | 4 | US-08-221-653-85 | Sequence 85, Appl |
| C 173 | 10.8 | 54.0 | 24 | 2 | US-08-320-306-44 | Sequence 44, Appl | C 246 | 10.6 | 53.0 | 33 | 4 | US-08-442-144A-85 | Sequence 85, Appl |

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|-------|------|------|----|---|--------------------|-------------------|-------|------|------|----|---|---------------------|--------------------|
| 247 | 10.6 | 53.0 | 33 | 4 | US-08-441-970-85 | Sequence 85, Appl | 320 | 10.4 | 52.0 | 32 | 3 | US-08-862-431-43 | Sequence 43, Appl |
| C 248 | 10.6 | 53.0 | 36 | 1 | US-08-305-699-3 | Sequence 3, Appl | C 321 | 10.4 | 52.0 | 32 | 5 | PCT-US93-11198-494 | Sequence 494, App |
| C 249 | 10.6 | 53.0 | 36 | 1 | US-08-305-699-4 | Sequence 4, Appl | C 322 | 10.4 | 52.0 | 34 | 4 | US-09-155-1077-40 | Sequence 40, Appl |
| C 250 | 10.6 | 53.0 | 37 | 1 | US-08-383-743A-18 | Sequence 18, Appl | C 323 | 10.4 | 52.0 | 34 | 4 | US-09-167-681-14 | Sequence 14, Appl |
| C 251 | 10.6 | 53.0 | 37 | 3 | US-08-808-881-18 | Sequence 18, Appl | C 324 | 10.4 | 52.0 | 35 | 1 | US-08-094-534-18 | Sequence 18, Appl |
| C 252 | 10.6 | 53.0 | 37 | 3 | US-09-017-631-18 | Sequence 18, Appl | C 325 | 10.4 | 52.0 | 35 | 2 | US-08-581-43-18 | Sequence 18, Appl |
| C 253 | 10.6 | 53.0 | 37 | 4 | US-09-167-375-21 | Sequence 21, Appl | C 326 | 10.4 | 52.0 | 35 | 5 | PCT-US94-08000-18 | Sequence 18, Appl |
| C 254 | 10.6 | 53.0 | 37 | 5 | PCT-US93-07116-18 | Sequence 18, Appl | C 327 | 10.4 | 52.0 | 36 | 1 | US-08-639-256-10 | Sequence 10, Appl |
| C 255 | 10.6 | 53.0 | 38 | 4 | US-09-315-886C-27 | Sequence 27, Appl | C 328 | 10.4 | 52.0 | 37 | 1 | US-08-411-796-495 | Sequence 495, App |
| C 256 | 10.6 | 53.0 | 40 | 4 | US-09-362-773-173 | Sequence 173, App | C 329 | 10.4 | 52.0 | 37 | 3 | US-08-471-039-495 | Sequence 495, App |
| C 257 | 10.6 | 53.0 | 42 | 3 | US-08-331-625A-32 | Sequence 32, App | C 330 | 10.4 | 52.0 | 37 | 5 | PCT-US93-11198-495 | Sequence 495, App |
| C 258 | 10.6 | 53.0 | 43 | 1 | US-08-406-635-1 | Sequence 1, Appl | C 331 | 10.4 | 52.0 | 38 | 1 | US-08-599-252-74 | Sequence 74, Appl |
| C 259 | 10.6 | 53.0 | 43 | 1 | US-08-406-635-3 | Sequence 3, Appl | C 332 | 10.4 | 52.0 | 38 | 1 | US-08-436-074-47 | Sequence 47, Appl |
| C 260 | 10.6 | 53.0 | 43 | 1 | US-08-406-635-3 | Sequence 3, Appl | C 333 | 10.4 | 52.0 | 38 | 5 | PCT-US96-06352-74 | Sequence 74, Appl |
| C 261 | 10.6 | 53.0 | 45 | 2 | US-08-882-756-6 | Sequence 6, Appl | C 334 | 10.4 | 52.0 | 38 | 5 | PCT-US96-06583-74 | Sequence 74, Appl |
| C 262 | 10.6 | 53.0 | 45 | 2 | US-09-315-886C-19 | Sequence 19, Appl | C 335 | 10.4 | 52.0 | 40 | 2 | US-08-648-657-10 | Sequence 10, Appl |
| C 263 | 10.6 | 53.0 | 48 | 3 | US-08-889-502-32 | Sequence 32, Appl | C 336 | 10.4 | 52.0 | 42 | 2 | US-08-781-620B-19 | Sequence 19, Appl |
| C 264 | 10.6 | 53.0 | 50 | 4 | US-08-849-567A-82 | Sequence 82, Appl | C 337 | 10.4 | 52.0 | 43 | 1 | US-08-171-389-30 | Sequence 30, Appl |
| C 265 | 10.6 | 53.0 | 70 | 3 | US-08-675-566-87 | Sequence 87, Appl | C 338 | 10.4 | 52.0 | 43 | 1 | US-08-123-936-30 | Sequence 30, Appl |
| C 266 | 10.6 | 53.0 | 70 | 3 | US-09-315-793-1 | Sequence 1, Appl | C 339 | 10.4 | 52.0 | 43 | 2 | US-08-475-228A-30 | Sequence 30, Appl |
| C 267 | 10.6 | 53.0 | 77 | 2 | US-08-447-169A-28 | Sequence 28, Appl | C 340 | 10.4 | 52.0 | 43 | 3 | US-08-482-080A-30 | Sequence 30, Appl |
| C 268 | 10.6 | 53.0 | 77 | 2 | US-08-233-012C-28 | Sequence 28, Appl | C 341 | 10.4 | 52.0 | 43 | 5 | PCT-US93-12388-30 | Sequence 30, Appl |
| C 269 | 10.6 | 53.0 | 94 | 1 | US-08-472-255A-7 | Sequence 7, Appl | C 342 | 10.4 | 52.0 | 44 | 4 | US-09-263-904-9 | Sequence 9, Appl |
| C 270 | 10.6 | 53.0 | 94 | 1 | US-08-479-724A-7 | Sequence 7, Appl | C 343 | 10.4 | 52.0 | 45 | 1 | US-09-199-737-10 | Sequence 10, Appl |
| C 271 | 10.6 | 53.0 | 94 | 3 | US-08-479-724A-7 | Sequence 7, Appl | C 344 | 10.4 | 52.0 | 46 | 1 | US-07-977-434-38 | Sequence 38, Appl |
| C 272 | 10.6 | 53.0 | 94 | 4 | US-08-952-793-7 | Sequence 7, Appl | C 345 | 10.4 | 52.0 | 46 | 1 | US-08-458-819-38 | Sequence 38, Appl |
| C 273 | 10.6 | 53.0 | 94 | 5 | PCT-US96-09455A-7 | Sequence 7, Appl | C 346 | 10.4 | 52.0 | 46 | 5 | PCT-US91-07035-38 | Sequence 38, Appl |
| C 274 | 10.6 | 53.0 | 95 | 3 | US-08-735-545-2 | Sequence 2, Appl | C 347 | 10.4 | 52.0 | 50 | 1 | US-08-171-389-460 | Sequence 460, App |
| C 275 | 10.6 | 53.0 | 95 | 4 | US-09-449-083-2 | Sequence 2, Appl | C 348 | 10.4 | 52.0 | 50 | 1 | US-08-384-708A-163 | Sequence 163, App |
| C 276 | 10.6 | 53.0 | 96 | 1 | US-07-966-187-9 | Sequence 9, Appl | C 349 | 10.4 | 52.0 | 50 | 1 | US-08-123-936-460 | Sequence 460, App |
| C 277 | 10.6 | 53.0 | 99 | 1 | US-08-472-255A-53 | Sequence 53, Appl | C 350 | 10.4 | 52.0 | 50 | 2 | US-08-475-228A-460 | Sequence 460, App |
| C 278 | 10.6 | 53.0 | 99 | 1 | US-08-479-724A-53 | Sequence 53, Appl | C 351 | 10.4 | 52.0 | 50 | 3 | US-08-482-080A-460 | Sequence 460, App |
| C 279 | 10.6 | 53.0 | 99 | 3 | US-08-472-256B-53 | Sequence 53, Appl | C 352 | 10.4 | 52.0 | 50 | 5 | US-08-687-421-163 | Sequence 163, App |
| C 280 | 10.6 | 53.0 | 99 | 4 | US-08-652-793-53 | Sequence 53, Appl | C 353 | 10.4 | 52.0 | 50 | 5 | US-08-687-421-163 | Sequence 163, App |
| C 281 | 10.6 | 53.0 | 99 | 5 | PCT-US96-09455A-53 | Sequence 53, Appl | C 354 | 10.4 | 52.0 | 54 | 1 | PCT-US93-12388-460 | Sequence 460, App |
| C 282 | 10.4 | 52.0 | 16 | 1 | US-08-442-141-7 | Sequence 7, Appl | C 355 | 10.4 | 52.0 | 54 | 4 | US-08-363-240A-1047 | Sequence 1047, App |
| C 283 | 10.4 | 52.0 | 17 | 1 | US-08-758-306-49 | Sequence 49, Appl | C 356 | 10.4 | 52.0 | 54 | 4 | US-08-584-040-8245 | Sequence 8245, Ap |
| C 284 | 10.4 | 52.0 | 18 | 1 | US-08-183-211-9 | Sequence 9, Appl | C 357 | 10.4 | 52.0 | 56 | 3 | US-08-976-413A-259 | Sequence 259, App |
| C 285 | 10.4 | 52.0 | 18 | 1 | US-08-758-306-513 | Sequence 513, App | C 358 | 10.4 | 52.0 | 61 | 4 | US-09-290-452-48 | Sequence 48, Appl |
| C 286 | 10.4 | 52.0 | 18 | 4 | US-09-630-706-24 | Sequence 24, Appl | C 359 | 10.4 | 52.0 | 61 | 4 | US-09-290-452-48 | Sequence 48, Appl |
| C 287 | 10.4 | 52.0 | 18 | 5 | PCT-US95-00176A-9 | Sequence 9, Appl | C 360 | 10.4 | 52.0 | 61 | 4 | US-09-280-338-48 | Sequence 48, Appl |
| C 288 | 10.4 | 52.0 | 20 | 1 | US-08-250-856A-5 | Sequence 5, Appl | C 361 | 10.4 | 52.0 | 70 | 1 | US-07-696-551B-4 | Sequence 4, Appl |
| C 289 | 10.4 | 52.0 | 20 | 1 | US-08-418-859-16 | Sequence 16, Appl | C 362 | 10.4 | 52.0 | 70 | 2 | US-08-465-591A-14 | Sequence 14, Appl |
| C 290 | 10.4 | 52.0 | 20 | 1 | US-08-465-590-64 | Sequence 64, Appl | C 363 | 10.4 | 52.0 | 70 | 2 | US-08-465-591A-45 | Sequence 45, Appl |
| C 291 | 10.4 | 52.0 | 20 | 2 | US-08-117-952-537 | Sequence 537, App | C 364 | 10.4 | 52.0 | 70 | 2 | US-08-465-594A-14 | Sequence 14, Appl |
| C 292 | 10.4 | 52.0 | 20 | 2 | US-08-643-181-16 | Sequence 16, Appl | C 365 | 10.4 | 52.0 | 70 | 2 | US-08-465-594A-45 | Sequence 45, Appl |
| C 293 | 10.4 | 52.0 | 20 | 2 | US-08-756-806A-5 | Sequence 5, Appl | C 366 | 10.4 | 52.0 | 70 | 4 | US-08-973-124-199 | Sequence 199, App |
| C 294 | 10.4 | 52.0 | 20 | 2 | US-08-837-201C-83 | Sequence 83, Appl | C 367 | 10.4 | 52.0 | 70 | 5 | US-08-973-124-230 | Sequence 230, App |
| C 295 | 10.4 | 52.0 | 20 | 3 | US-09-143-214-5 | Sequence 5, Appl | C 368 | 10.4 | 52.0 | 70 | 5 | PCT-US96-08014-199 | Sequence 199, App |
| C 296 | 10.4 | 52.0 | 20 | 3 | US-09-418-640-52 | Sequence 52, Appl | C 369 | 10.4 | 52.0 | 72 | 2 | US-08-432-871C-64 | Sequence 64, Appl |
| C 297 | 10.4 | 52.0 | 20 | 4 | US-08-711-417C-64 | Sequence 64, Appl | C 370 | 10.4 | 52.0 | 72 | 4 | US-08-461-697-145 | Sequence 145, App |
| C 298 | 10.4 | 52.0 | 20 | 5 | US-09-364-416-83 | Sequence 83, Appl | C 371 | 10.4 | 52.0 | 77 | 2 | US-08-477-527A-238 | Sequence 238, App |
| C 299 | 10.4 | 52.0 | 20 | 5 | PCT-US93-08743-64 | Sequence 64, Appl | C 372 | 10.4 | 52.0 | 77 | 3 | US-08-481-710-238 | Sequence 238, App |
| C 300 | 10.4 | 52.0 | 20 | 5 | PCT-US95-07111A-5 | Sequence 5, Appl | C 373 | 10.4 | 52.0 | 77 | 5 | PCT-US96-09537-238 | Sequence 238, App |
| C 301 | 10.4 | 52.0 | 21 | 2 | US-08-117-952-19 | Sequence 19, Appl | C 374 | 10.4 | 52.0 | 85 | 1 | US-08-471-985A-96 | Sequence 96, Appl |
| C 302 | 10.4 | 52.0 | 24 | 1 | US-08-411-796-381 | Sequence 381, App | C 375 | 10.4 | 52.0 | 85 | 5 | PCT-US95-12401A-96 | Sequence 96, Appl |
| C 303 | 10.4 | 52.0 | 24 | 3 | US-08-471-039-381 | Sequence 381, App | C 376 | 10.4 | 52.0 | 86 | 4 | US-08-687-421-411 | Sequence 411, App |
| C 304 | 10.4 | 52.0 | 24 | 4 | US-09-101-886B-14 | Sequence 14, Appl | C 377 | 10.4 | 52.0 | 93 | 4 | US-09-030-607-220 | Sequence 220, App |
| C 305 | 10.4 | 52.0 | 24 | 4 | US-09-101-886B-14 | Sequence 14, Appl | C 378 | 10.4 | 52.0 | 93 | 4 | US-09-461-697-143 | Sequence 143, App |
| C 306 | 10.4 | 52.0 | 24 | 4 | US-09-101-886B-21 | Sequence 21, Appl | C 379 | 10.4 | 52.0 | 93 | 4 | US-09-439-313-220 | Sequence 220, App |
| C 307 | 10.4 | 52.0 | 24 | 5 | PCT-US93-11198-381 | Sequence 381, App | C 380 | 10.4 | 52.0 | 96 | 4 | US-09-342-681C-107 | Sequence 107, App |
| C 308 | 10.4 | 52.0 | 26 | 2 | US-08-626-685A-12 | Sequence 12, Appl | C 381 | 10.2 | 51.0 | 15 | 1 | US-08-686-116A-23 | Sequence 23, Appl |
| C 309 | 10.4 | 52.0 | 26 | 2 | US-08-536-559A-11 | Sequence 11, Appl | C 382 | 10.2 | 51.0 | 15 | 1 | US-08-686-116A-23 | Sequence 23, Appl |
| C 310 | 10.4 | 52.0 | 28 | 4 | US-09-426-332-4 | Sequence 4, Appl | C 383 | 10.2 | 51.0 | 15 | 1 | US-08-685-484-23 | Sequence 23, Appl |
| C 311 | 10.4 | 52.0 | 29 | 4 | US-09-404-390-20 | Sequence 20, Appl | C 384 | 10.2 | 51.0 | 15 | 1 | US-08-685-484-24 | Sequence 24, Appl |
| C 312 | 10.4 | 52.0 | 30 | 2 | US-08-779-596A-2 | Sequence 2, Appl | C 385 | 10.2 | 51.0 | 15 | 1 | US-08-847-108-23 | Sequence 23, Appl |
| C 313 | 10.4 | 52.0 | 31 | 1 | US-07-821-717B-1 | Sequence 1, Appl | C 386 | 10.2 | 51.0 | 15 | 1 | US-08-847-108-24 | Sequence 24, Appl |
| C 314 | 10.4 | 52.0 | 31 | 1 | US-07-770-968-1 | Sequence 1, Appl | C 387 | 10.2 | 51.0 | 15 | 1 | US-08-686-113A-36 | Sequence 36, Appl |
| C 315 | 10.4 | 52.0 | 31 | 1 | US-08-119-262B-1 | Sequence 1, Appl | C 388 | 10.2 | 51.0 | 15 | 1 | US-08-686-113A-37 | Sequence 37, Appl |
| C 316 | 10.4 | 52.0 | 31 | 1 | US-08-135-929A-1 | Sequence 1, Appl | C 389 | 10.2 | 51.0 | 15 | 1 | US-08-847-095A-23 | Sequence 23, Appl |
| C 317 | 10.4 | 52.0 | 31 | 1 | US-08-234-265A-1 | Sequence 1, Appl | C 390 | 10.2 | 51.0 | 15 | 1 | US-08-847-095A-24 | Sequence 24, Appl |
| C 318 | 10.4 | 52.0 | 32 | 1 | US-08-411-796-494 | Sequence 494, App | C 391 | 10.2 | 51.0 | 17 | 3 | US-08-538-666-26 | Sequence 26, Appl |
| C 319 | 10.4 | 52.0 | 32 | 3 | US-08-471-039-494 | Sequence 494, App | C 392 | 10.2 | 51.0 | 17 | 3 | US-08-998-099-52 | Sequence 52, Appl |

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|-----|------|------|----|---|--------------------|-------------------|
| 393 | 10.2 | 51.0 | 18 | 3 | US-08-894-784-30 | Sequence 30, Appl |
| 394 | 10.2 | 51.0 | 18 | 3 | US-09-280-409-112 | Sequence 112, App |
| 395 | 10.2 | 51.0 | 18 | 3 | US-08-894-736-15 | Sequence 15, Appl |
| 396 | 10.2 | 51.0 | 20 | 1 | US-08-697-815-4 | Sequence 4, Appl |
| 397 | 10.2 | 51.0 | 20 | 2 | US-09-061-286-4 | Sequence 71, Appl |
| 398 | 10.2 | 51.0 | 20 | 2 | US-08-765-783A-71 | Sequence 154, App |
| 399 | 10.2 | 51.0 | 20 | 2 | US-08-904-901-154 | Sequence 71, Appl |
| 400 | 10.2 | 51.0 | 20 | 3 | US-08-921-100-71 | Sequence 134, App |
| 401 | 10.2 | 51.0 | 20 | 3 | US-08-880-142-71 | Sequence 71, Appl |
| 402 | 10.2 | 51.0 | 20 | 3 | US-08-902-201-71 | Sequence 71, Appl |
| 403 | 10.2 | 51.0 | 20 | 3 | US-09-249-730-154 | Sequence 154, App |
| 404 | 10.2 | 51.0 | 20 | 4 | US-09-416-557-71 | Sequence 71, Appl |
| 405 | 10.2 | 51.0 | 21 | 1 | US-08-009-263C-61 | Sequence 61, Appl |
| 406 | 10.2 | 51.0 | 21 | 1 | US-08-838-715B-61 | Sequence 61, Appl |
| 407 | 10.2 | 51.0 | 21 | 4 | US-08-943-731-575 | Sequence 575, App |
| 408 | 10.2 | 51.0 | 22 | 4 | US-09-499-362-8 | Sequence 8, Appl |
| 409 | 10.2 | 51.0 | 22 | 4 | US-08-475-470A-3 | Sequence 3, Appl |
| 410 | 10.2 | 51.0 | 24 | 4 | US-09-507-819-1 | Sequence 1, Appl |
| 411 | 10.2 | 51.0 | 24 | 4 | US-09-507-819-69 | Sequence 69, Appl |
| 412 | 10.2 | 51.0 | 24 | 4 | US-09-507-819-70 | Sequence 70, Appl |
| 413 | 10.2 | 51.0 | 25 | 1 | US-08-199-508-42 | Sequence 42, Appl |
| 414 | 10.2 | 51.0 | 25 | 1 | US-08-569-149-1 | Sequence 1, Appl |
| 415 | 10.2 | 51.0 | 27 | 3 | US-08-863-790-33 | Sequence 33, Appl |
| 416 | 10.2 | 51.0 | 27 | 3 | US-08-513-974B-77 | Sequence 77, Appl |
| 417 | 10.2 | 51.0 | 27 | 3 | US-08-444-818-182 | Sequence 182, App |
| 418 | 10.2 | 51.0 | 27 | 3 | US-08-296-749-33 | Sequence 33, Appl |
| 419 | 10.2 | 51.0 | 28 | 3 | US-08-444-818-185 | Sequence 185, App |
| 420 | 10.2 | 51.0 | 30 | 1 | US-08-393-985-26 | Sequence 26, Appl |
| 421 | 10.2 | 51.0 | 30 | 1 | US-08-137-117D-74 | Sequence 74, Appl |
| 422 | 10.2 | 51.0 | 30 | 1 | US-08-436-717-74 | Sequence 74, Appl |
| 423 | 10.2 | 51.0 | 30 | 3 | US-08-513-974B-140 | Sequence 140, App |
| 424 | 10.2 | 51.0 | 31 | 2 | US-08-821-782-20 | Sequence 20, Appl |
| 425 | 10.2 | 51.0 | 31 | 4 | US-09-292-435A-20 | Sequence 20, Appl |
| 426 | 10.2 | 51.0 | 32 | 4 | US-08-174-672D-48 | Sequence 48, Appl |
| 427 | 10.2 | 51.0 | 32 | 4 | US-09-233-468A-51 | Sequence 51, Appl |
| 428 | 10.2 | 51.0 | 33 | 1 | US-07-901-707-56 | Sequence 56, Appl |
| 429 | 10.2 | 51.0 | 33 | 1 | US-07-988-430-56 | Sequence 56, Appl |
| 430 | 10.2 | 51.0 | 33 | 1 | US-08-425-336-55 | Sequence 55, Appl |
| 431 | 10.2 | 51.0 | 33 | 1 | US-08-488-113B-55 | Sequence 55, Appl |
| 432 | 10.2 | 51.0 | 33 | 1 | US-08-477-484B-55 | Sequence 55, Appl |
| 433 | 10.2 | 51.0 | 33 | 2 | US-08-646-360-55 | Sequence 55, Appl |
| 434 | 10.2 | 51.0 | 33 | 3 | US-08-839-765-55 | Sequence 55, Appl |
| 435 | 10.2 | 51.0 | 33 | 3 | US-09-136-389-55 | Sequence 55, Appl |
| 436 | 10.2 | 51.0 | 33 | 3 | US-09-238-356-6 | Sequence 6, Appl |
| 437 | 10.2 | 51.0 | 33 | 5 | PCT-US92-09487-56 | Sequence 56, Appl |
| 438 | 10.2 | 51.0 | 35 | 1 | US-08-137-117D-42 | Sequence 42, Appl |
| 439 | 10.2 | 51.0 | 35 | 1 | US-08-137-117D-45 | Sequence 45, Appl |
| 440 | 10.2 | 51.0 | 35 | 1 | US-08-436-717-45 | Sequence 45, Appl |
| 441 | 10.2 | 51.0 | 35 | 1 | US-08-436-717-45 | Sequence 45, Appl |
| 442 | 10.2 | 51.0 | 35 | 2 | US-08-561-521-15 | Sequence 15, Appl |
| 443 | 10.2 | 51.0 | 35 | 2 | US-08-553-501A-30 | Sequence 30, Appl |
| 444 | 10.2 | 51.0 | 35 | 3 | US-09-205-231-30 | Sequence 30, Appl |
| 445 | 10.2 | 51.0 | 35 | 3 | PCT-US95-01219-19 | Sequence 19, Appl |
| 446 | 10.2 | 51.0 | 36 | 2 | US-08-808-931-32 | Sequence 32, Appl |
| 447 | 10.2 | 51.0 | 36 | 3 | US-09-050-603A-32 | Sequence 32, Appl |
| 448 | 10.2 | 51.0 | 36 | 3 | US-09-102-420B-32 | Sequence 32, Appl |
| 449 | 10.2 | 51.0 | 36 | 4 | US-08-793-701-51 | Sequence 51, Appl |
| 450 | 10.2 | 51.0 | 36 | 4 | US-09-497-698-32 | Sequence 32, Appl |
| 451 | 10.2 | 51.0 | 37 | 2 | US-08-765-783A-32 | Sequence 32, Appl |
| 452 | 10.2 | 51.0 | 37 | 3 | US-08-921-100-33 | Sequence 32, Appl |
| 453 | 10.2 | 51.0 | 37 | 3 | US-08-880-142-32 | Sequence 32, Appl |
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| 455 | 10.2 | 51.0 | 37 | 4 | US-09-416-557-32 | Sequence 32, Appl |
| 456 | 10.2 | 51.0 | 38 | 5 | US-08-561-521-30 | Sequence 30, Appl |
| 457 | 10.2 | 51.0 | 38 | 5 | PCT-US95-01219-30 | Sequence 30, Appl |
| 458 | 10.2 | 51.0 | 40 | 2 | US-08-808-931-33 | Sequence 33, Appl |
| 459 | 10.2 | 51.0 | 40 | 3 | US-09-050-603A-33 | Sequence 33, Appl |
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| 461 | 10.2 | 51.0 | 40 | 4 | US-09-497-698-33 | Sequence 33, Appl |
| 462 | 10.2 | 51.0 | 42 | 1 | US-08-147-000B-17 | Sequence 17, Appl |
| 463 | 10.2 | 51.0 | 45 | 2 | US-08-495-695B-15 | Sequence 15, Appl |
| 464 | 10.2 | 51.0 | 45 | 5 | PCT-US94-14436-15 | Sequence 15, Appl |
| 465 | 10.2 | 51.0 | 46 | 1 | US-08-271-880A-93 | Sequence 93, Appl |

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| 466 | 10.2 | 51.0 | 46 | 1 | US-08-271-880A-116 | Sequence 116, App |
| 467 | 10.2 | 51.0 | 46 | 2 | US-08-910-408-93 | Sequence 93, Appl |
| 468 | 10.2 | 51.0 | 46 | 2 | US-08-910-408-116 | Sequence 116, App |
| 469 | 10.2 | 51.0 | 46 | 3 | US-08-448-619-7 | Sequence 7, Appl |
| 470 | 10.2 | 51.0 | 46 | 3 | US-09-249-215-93 | Sequence 93, Appl |
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| 472 | 10.2 | 51.0 | 50 | 1 | US-08-171-389-422 | Sequence 422, App |
| 473 | 10.2 | 51.0 | 50 | 1 | US-08-171-389-480 | Sequence 480, App |
| 474 | 10.2 | 51.0 | 50 | 1 | US-08-171-389-559 | Sequence 559, App |
| 475 | 10.2 | 51.0 | 50 | 1 | US-08-171-389-560 | Sequence 560, App |
| 476 | 10.2 | 51.0 | 50 | 1 | US-08-171-389-576 | Sequence 576, App |
| 477 | 10.2 | 51.0 | 50 | 1 | US-08-123-936-422 | Sequence 422, App |
| 478 | 10.2 | 51.0 | 50 | 1 | US-08-123-936-480 | Sequence 480, App |
| 479 | 10.2 | 51.0 | 50 | 1 | US-08-123-936-559 | Sequence 559, App |
| 480 | 10.2 | 51.0 | 50 | 1 | US-08-123-936-560 | Sequence 560, App |
| 481 | 10.2 | 51.0 | 50 | 2 | US-08-123-936-576 | Sequence 576, App |
| 482 | 10.2 | 51.0 | 50 | 2 | US-08-475-228A-422 | Sequence 422, App |
| 483 | 10.2 | 51.0 | 50 | 2 | US-08-475-228A-480 | Sequence 480, App |
| 484 | 10.2 | 51.0 | 50 | 2 | US-08-475-228A-559 | Sequence 559, App |
| 485 | 10.2 | 51.0 | 50 | 2 | US-08-475-228A-560 | Sequence 560, App |
| 486 | 10.2 | 51.0 | 50 | 2 | US-08-475-228A-576 | Sequence 576, App |
| 487 | 10.2 | 51.0 | 50 | 3 | US-08-482-080A-422 | Sequence 422, App |
| 488 | 10.2 | 51.0 | 50 | 3 | US-08-482-080A-480 | Sequence 480, App |
| 489 | 10.2 | 51.0 | 50 | 3 | US-08-482-080A-559 | Sequence 559, App |
| 490 | 10.2 | 51.0 | 50 | 3 | US-08-482-080A-560 | Sequence 560, App |
| 491 | 10.2 | 51.0 | 50 | 3 | US-08-482-080A-576 | Sequence 576, App |
| 492 | 10.2 | 51.0 | 50 | 5 | PCT-US93-12388-422 | Sequence 422, App |
| 493 | 10.2 | 51.0 | 50 | 5 | PCT-US93-12388-480 | Sequence 480, App |
| 494 | 10.2 | 51.0 | 50 | 5 | PCT-US93-12388-559 | Sequence 559, App |
| 495 | 10.2 | 51.0 | 50 | 5 | PCT-US93-12388-560 | Sequence 560, App |
| 496 | 10.2 | 51.0 | 50 | 5 | PCT-US93-12388-576 | Sequence 576, App |
| 497 | 10.2 | 51.0 | 51 | 1 | US-08-171-389-423 | Sequence 423, App |
| 498 | 10.2 | 51.0 | 51 | 1 | US-08-123-936-423 | Sequence 423, App |
| 499 | 10.2 | 51.0 | 51 | 2 | US-08-475-228A-423 | Sequence 423, App |
| 500 | 10.2 | 51.0 | 51 | 3 | US-08-482-080A-423 | Sequence 423, App |
| 501 | 10.2 | 51.0 | 51 | 5 | PCT-US93-12388-423 | Sequence 423, App |
| 502 | 10.2 | 51.0 | 53 | 4 | US-09-345-773A-7 | Sequence 7, Appl |
| 503 | 10.2 | 51.0 | 54 | 1 | US-08-758-306-1378 | Sequence 1378, App |
| 504 | 10.2 | 51.0 | 54 | 2 | US-08-561-521-28 | Sequence 28, Appl |
| 505 | 10.2 | 51.0 | 59 | 5 | PCT-US95-01219-28 | Sequence 28, Appl |
| 506 | 10.2 | 51.0 | 61 | 4 | US-09-523-217-35 | Sequence 35, Appl |
| 507 | 10.2 | 51.0 | 62 | 4 | US-09-523-217-34 | Sequence 34, Appl |
| 508 | 10.2 | 51.0 | 64 | 4 | US-09-025-769B-101 | Sequence 101, App |
| 509 | 10.2 | 51.0 | 67 | 3 | US-08-388-353-649 | Sequence 649, App |
| 510 | 10.2 | 51.0 | 67 | 3 | US-08-488-551B-649 | Sequence 649, App |
| 511 | 10.2 | 51.0 | 69 | 1 | US-07-744-282C-36 | Sequence 36, Appl |
| 512 | 10.2 | 51.0 | 69 | 1 | US-07-744-282C-38 | Sequence 38, Appl |
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| 514 | 10.2 | 51.0 | 69 | 5 | PCT-US92-06821A-44 | Sequence 44, Appl |
| 515 | 10.2 | 51.0 | 69 | 5 | PCT-US92-06821A-45 | Sequence 45, Appl |
| 516 | 10.2 | 51.0 | 71 | 4 | US-08-952-793-338 | Sequence 338, App |
| 517 | 10.2 | 51.0 | 71 | 5 | PCT-US96-09455A-338 | Sequence 338, App |
| 518 | 10.2 | 51.0 | 74 | 1 | US-08-208-886C-24 | Sequence 24, Appl |
| 519 | 10.2 | 51.0 | 74 | 1 | US-08-704-744-24 | Sequence 24, Appl |
| 520 | 10.2 | 51.0 | 74 | 1 | US-08-199-508-44 | Sequence 44, Appl |
| 521 | 10.2 | 51.0 | 74 | 1 | US-08-463-557-24 | Sequence 24, Appl |
| 522 | 10.2 | 51.0 | 74 | 2 | US-08-290-793B-24 | Sequence 24, Appl |
| 523 | 10.2 | 51.0 | 75 | 1 | US-08-199-508-36 | Sequence 36, Appl |
| 524 | 10.2 | 51.0 | 79 | 1 | US-07-982-712-7 | Sequence 7, Appl |
| 525 | 10.2 | 51.0 | 84 | 4 | US-09-437-457-7 | Sequence 7, Appl |
| 526 | 10.2 | 51.0 | 87 | 4 | US-08-952-793-247 | Sequence 247, App |
| 527 | 10.2 | 51.0 | 87 | 5 | PCT-US96-09455A-247 | Sequence 247, App |
| 528 | 10.2 | 51.0 | 95 | 4 | US-08-952-793-219 | Sequence 219, App |
| 529 | 10.2 | 51.0 | 95 | 5 | PCT-US96-09455A-219 | Sequence 219, App |
| 530 | 10.2 | 51.0 | 96 | 3 | US-08-484-332-44 | Sequence 44, Appl |
| 531 | 10.2 | 51.0 | 96 | 4 | US-09-507-819-33 | Sequence 33, Appl |
| 532 | 10.2 | 51.0 | 96 | 4 | US-09-507-819-35 | Sequence 35, Appl |
| 533 | 10.2 | 51.0 | 96 | 4 | US-09-507-819-37 | Sequence 37, Appl |
| 534 | 10.2 | 51.0 | 96 | 4 | US-09-507-819-39 | Sequence 39, Appl |
| 535 | 10.2 | 51.0 | 18 | 4 | US-07-196-387-6 | Sequence 6, Appl |
| 536 | 10.2 | 51.0 | 19 | 1 | US-07-841-662-17 | Sequence 17, Appl |
| 537 | 10.2 | 51.0 | 19 | 1 | US-08-209-797-17 | Sequence 17, Appl |
| 538 | 10.2 | 51.0 | 19 | 1 | US-08-669-665-17 | Sequence 17, Appl |

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| 539 | 10 | 50.0 | 19 | 3 | US-09-103-486-17 | Sequence 17, App1 | 612 | 10 | 50.0 | 34 | 2 | US-08-570-155-5 | Sequence 5, App1 |
| 540 | 10 | 50.0 | 19 | 4 | US-09-039-982A-17 | Sequence 17, App1 | 613 | 10 | 50.0 | 34 | 5 | PCT-US95-02861-5 | Sequence 5, App1 |
| 541 | 10 | 50.0 | 19 | 4 | US-09-039-641-17 | Sequence 17, App1 | 614 | 10 | 50.0 | 34 | 5 | PCT-US95-15353-22 | Sequence 22, App1 |
| 542 | 10 | 50.0 | 19 | 4 | US-09-039-762A-17 | Sequence 17, App1 | 615 | 10 | 50.0 | 36 | 1 | US-08-144-212-6 | Sequence 6, App1 |
| 543 | 10 | 50.0 | 19 | 5 | PCT-US93-01557-17 | Sequence 17, App1 | 616 | 10 | 50.0 | 36 | 1 | US-08-144-212-6 | Sequence 6, App1 |
| 544 | 10 | 50.0 | 20 | 1 | US-08-286-889-30 | Sequence 30, App1 | 617 | 10 | 50.0 | 37 | 1 | US-08-133-711-18 | Sequence 18, App1 |
| 545 | 10 | 50.0 | 20 | 1 | US-08-485-618-30 | Sequence 30, App1 | 618 | 10 | 50.0 | 37 | 2 | US-08-244-434-4 | Sequence 4, App1 |
| 546 | 10 | 50.0 | 20 | 1 | US-08-362-652-30 | Sequence 30, App1 | 619 | 10 | 50.0 | 37 | 4 | US-09-564-805-169 | Sequence 169, App |
| 547 | 10 | 50.0 | 20 | 1 | US-08-647-118-2 | Sequence 2, App1 | 620 | 10 | 50.0 | 38 | 1 | US-08-111-080-38 | Sequence 38, App1 |
| 548 | 10 | 50.0 | 20 | 1 | US-08-605-672-30 | Sequence 30, App1 | 621 | 10 | 50.0 | 38 | 1 | US-08-390-850-773 | Sequence 773, App |
| 549 | 10 | 50.0 | 20 | 2 | US-08-482-293A-30 | Sequence 30, App1 | 622 | 10 | 50.0 | 38 | 1 | US-08-211-960-38 | Sequence 38, App1 |
| 550 | 10 | 50.0 | 20 | 2 | US-08-943-363-30 | Sequence 30, App1 | 623 | 10 | 50.0 | 38 | 1 | US-08-435-634-773 | Sequence 773, App |
| 551 | 10 | 50.0 | 20 | 2 | US-08-478-178A-119 | Sequence 119, App | 624 | 10 | 50.0 | 38 | 5 | PCT-US93-07967-38 | Sequence 38, App1 |
| 552 | 10 | 50.0 | 20 | 2 | US-08-488-177-119 | Sequence 119, App | 625 | 10 | 50.0 | 40 | 4 | US-09-306-998-48 | Sequence 48, App1 |
| 553 | 10 | 50.0 | 20 | 2 | US-08-481-072A-119 | Sequence 119, App | 626 | 10 | 50.0 | 41 | 4 | US-08-952-793-186 | Sequence 186, App |
| 554 | 10 | 50.0 | 20 | 2 | US-08-664-336-119 | Sequence 119, App | 627 | 10 | 50.0 | 41 | 5 | PCT-US96-09455A-186 | Sequence 186, App |
| 555 | 10 | 50.0 | 20 | 2 | US-08-481-066A-119 | Sequence 119, App | 628 | 10 | 50.0 | 42 | 1 | US-08-468-036-30 | Sequence 30, App1 |
| 556 | 10 | 50.0 | 20 | 3 | US-08-578-615A-82 | Sequence 82, App1 | 629 | 10 | 50.0 | 42 | 2 | US-08-376-843-30 | Sequence 30, App1 |
| 557 | 10 | 50.0 | 20 | 3 | US-09-288-461-68 | Sequence 68, App1 | 630 | 10 | 50.0 | 43 | 1 | US-08-343-682-14 | Sequence 14, App1 |
| 558 | 10 | 50.0 | 20 | 3 | US-09-193-043-30 | Sequence 30, App1 | 631 | 10 | 50.0 | 43 | 1 | US-08-343-682-15 | Sequence 15, App1 |
| 559 | 10 | 50.0 | 20 | 4 | US-08-829-637A-119 | Sequence 119, App | 632 | 10 | 50.0 | 43 | 2 | US-08-781-620B-5 | Sequence 5, App1 |
| 560 | 10 | 50.0 | 20 | 4 | US-09-268-992-83 | Sequence 83, App1 | 633 | 10 | 50.0 | 43 | 2 | US-08-448-744-9 | Sequence 9, App1 |
| 561 | 10 | 50.0 | 20 | 5 | PCT-US94-07770-82 | Sequence 82, App1 | 634 | 10 | 50.0 | 45 | 1 | US-08-119-773-14 | Sequence 14, App1 |
| 562 | 10 | 50.0 | 21 | 1 | US-08-135-511-13 | Sequence 13, App1 | 635 | 10 | 50.0 | 46 | 1 | US-08-343-682-3 | Sequence 3, App1 |
| 563 | 10 | 50.0 | 21 | 1 | US-08-187-453-13 | Sequence 13, App1 | 636 | 10 | 50.0 | 46 | 1 | US-08-343-682-6 | Sequence 6, App1 |
| 564 | 10 | 50.0 | 21 | 4 | US-08-840-767-24 | Sequence 24, App1 | 637 | 10 | 50.0 | 46 | 1 | US-08-343-682-7 | Sequence 7, App1 |
| 565 | 10 | 50.0 | 22 | 1 | US-08-477-559-6 | Sequence 6, App1 | 638 | 10 | 50.0 | 49 | 2 | US-09-157-206-5 | Sequence 5, App1 |
| 566 | 10 | 50.0 | 22 | 1 | US-08-332-420-32 | Sequence 32, App1 | 639 | 10 | 50.0 | 49 | 4 | US-08-952-089A-31 | Sequence 31, App1 |
| 567 | 10 | 50.0 | 22 | 2 | US-08-995-161-6 | Sequence 6, App1 | 640 | 10 | 50.0 | 49 | 4 | US-09-447-863-5 | Sequence 5, App1 |
| 568 | 10 | 50.0 | 22 | 2 | US-09-063-927-6 | Sequence 6, App1 | 641 | 10 | 50.0 | 49 | 4 | US-09-581-326-5 | Sequence 5, App1 |
| 569 | 10 | 50.0 | 22 | 3 | US-09-258-349-7 | Sequence 7, App1 | 642 | 10 | 50.0 | 49 | 4 | US-09-581-326-11 | Sequence 11, App1 |
| 570 | 10 | 50.0 | 22 | 3 | US-08-188-275A-10 | Sequence 10, App1 | 643 | 10 | 50.0 | 49 | 4 | US-08-952-793-185 | Sequence 185, App |
| 571 | 10 | 50.0 | 23 | 4 | US-08-949-155-34 | Sequence 34, App1 | 644 | 10 | 50.0 | 49 | 5 | PCT-US96-09455A-185 | Sequence 185, App |
| 572 | 10 | 50.0 | 25 | 1 | US-08-479-852-46 | Sequence 46, App1 | 645 | 10 | 50.0 | 50 | 3 | US-08-477-934-15 | Sequence 15, App1 |
| 573 | 10 | 50.0 | 25 | 1 | US-08-479-852-126 | Sequence 126, App | 646 | 10 | 50.0 | 52 | 4 | US-08-952-793-193 | Sequence 193, App |
| 574 | 10 | 50.0 | 25 | 1 | US-08-199-508-41 | Sequence 41, App1 | 647 | 10 | 50.0 | 52 | 5 | PCT-US96-09455A-193 | Sequence 193, App |
| 575 | 10 | 50.0 | 25 | 2 | US-08-462-646-46 | Sequence 46, App1 | 648 | 10 | 50.0 | 58 | 1 | US-08-477-877B-8 | Sequence 8, App1 |
| 576 | 10 | 50.0 | 25 | 2 | US-08-462-646-126 | Sequence 126, App | 649 | 10 | 50.0 | 58 | 1 | US-08-472-281A-8 | Sequence 8, App1 |
| 577 | 10 | 50.0 | 25 | 4 | US-09-177-359-8 | Sequence 8, App1 | 650 | 10 | 50.0 | 58 | 2 | US-08-252-493C-6 | Sequence 6, App1 |
| 578 | 10 | 50.0 | 25 | 4 | US-09-013-406-46 | Sequence 46, App1 | 651 | 10 | 50.0 | 58 | 2 | US-08-477-989B-8 | Sequence 8, App1 |
| 579 | 10 | 50.0 | 26 | 2 | US-08-859-998-65 | Sequence 65, App1 | 652 | 10 | 50.0 | 58 | 3 | US-09-276-197-6 | Sequence 6, App1 |
| 580 | 10 | 50.0 | 26 | 2 | US-08-859-998-65 | Sequence 65, App1 | 653 | 10 | 50.0 | 59 | 2 | US-08-704-473-26 | Sequence 26, App1 |
| 581 | 10 | 50.0 | 26 | 4 | US-09-225-928-65 | Sequence 65, App1 | 654 | 10 | 50.0 | 60 | 2 | US-08-053-451B-158 | Sequence 158, App |
| 582 | 10 | 50.0 | 27 | 1 | US-08-100-465-5 | Sequence 5, App1 | 655 | 10 | 50.0 | 60 | 3 | US-08-726-867A-3 | Sequence 3, App1 |
| 583 | 10 | 50.0 | 27 | 1 | US-08-479-852-45 | Sequence 45, App1 | 656 | 10 | 50.0 | 60 | 4 | US-08-942-806A-3 | Sequence 3, App1 |
| 584 | 10 | 50.0 | 27 | 1 | US-08-479-852-125 | Sequence 125, App | 657 | 10 | 50.0 | 63 | 2 | US-08-853-703A-4 | Sequence 4, App1 |
| 585 | 10 | 50.0 | 27 | 1 | US-08-561-151-6 | Sequence 6, App1 | 658 | 10 | 50.0 | 63 | 3 | US-07-921-104D-34 | Sequence 34, App1 |
| 586 | 10 | 50.0 | 27 | 2 | US-08-632-575B-55 | Sequence 55, App1 | 659 | 10 | 50.0 | 66 | 1 | US-08-119-773-22 | Sequence 22, App1 |
| 587 | 10 | 50.0 | 27 | 2 | US-08-462-646-45 | Sequence 45, App1 | 660 | 10 | 50.0 | 66 | 1 | US-09-017-612A-2 | Sequence 2, App1 |
| 588 | 10 | 50.0 | 27 | 2 | US-08-462-646-125 | Sequence 125, App | 661 | 10 | 50.0 | 69 | 1 | US-08-434-001-74 | Sequence 74, App1 |
| 589 | 10 | 50.0 | 27 | 4 | US-09-013-406-45 | Sequence 45, App1 | 662 | 10 | 50.0 | 69 | 1 | US-08-434-001-75 | Sequence 75, App1 |
| 590 | 10 | 50.0 | 27 | 4 | US-09-013-406-125 | Sequence 125, App | 663 | 10 | 50.0 | 69 | 1 | US-08-434-001-76 | Sequence 76, App1 |
| 591 | 10 | 50.0 | 30 | 1 | US-08-140-729A-15 | Sequence 15, App1 | 664 | 10 | 50.0 | 69 | 1 | US-08-434-001-78 | Sequence 78, App1 |
| 592 | 10 | 50.0 | 30 | 1 | US-08-346-666-15 | Sequence 15, App1 | 665 | 10 | 50.0 | 69 | 1 | US-08-433-585-74 | Sequence 74, App1 |
| 593 | 10 | 50.0 | 30 | 2 | US-08-916-745-15 | Sequence 15, App1 | 666 | 10 | 50.0 | 69 | 1 | US-08-433-585-75 | Sequence 75, App1 |
| 594 | 10 | 50.0 | 30 | 2 | US-09-042-929-15 | Sequence 15, App1 | 667 | 10 | 50.0 | 69 | 1 | US-08-433-585-76 | Sequence 76, App1 |
| 595 | 10 | 50.0 | 30 | 2 | US-08-546-661-15 | Sequence 15, App1 | 668 | 10 | 50.0 | 69 | 1 | US-08-433-585-78 | Sequence 78, App1 |
| 596 | 10 | 50.0 | 30 | 2 | US-09-042-960-15 | Sequence 15, App1 | 669 | 10 | 50.0 | 69 | 1 | US-08-434-425-74 | Sequence 74, App1 |
| 597 | 10 | 50.0 | 30 | 3 | US-09-198-650-15 | Sequence 15, App1 | 669 | 10 | 50.0 | 69 | 1 | US-08-434-425-75 | Sequence 75, App1 |
| 598 | 10 | 50.0 | 30 | 3 | US-09-042-913-15 | Sequence 15, App1 | 670 | 10 | 50.0 | 69 | 1 | US-08-437-667-75 | Sequence 75, App1 |
| 599 | 10 | 50.0 | 30 | 3 | US-09-042-937-15 | Sequence 15, App1 | 671 | 10 | 50.0 | 69 | 1 | US-08-434-425-76 | Sequence 76, App1 |
| 600 | 10 | 50.0 | 31 | 1 | US-08-390-850-74 | Sequence 74, App1 | 672 | 10 | 50.0 | 69 | 2 | US-08-437-667-74 | Sequence 74, App1 |
| 601 | 10 | 50.0 | 31 | 1 | US-08-390-850-75 | Sequence 75, App1 | 673 | 10 | 50.0 | 69 | 2 | US-08-437-667-75 | Sequence 75, App1 |
| 602 | 10 | 50.0 | 31 | 1 | US-08-435-634-74 | Sequence 74, App1 | 674 | 10 | 50.0 | 69 | 2 | US-08-437-667-76 | Sequence 76, App1 |
| 603 | 10 | 50.0 | 31 | 1 | US-08-435-634-75 | Sequence 75, App1 | 675 | 10 | 50.0 | 69 | 2 | US-08-437-667-77 | Sequence 77, App1 |
| 604 | 10 | 50.0 | 32 | 3 | US-09-121-321-17 | Sequence 17, App1 | 676 | 10 | 50.0 | 69 | 3 | US-08-437-667-78 | Sequence 78, App1 |
| 605 | 10 | 50.0 | 32 | 4 | US-09-155-768-2 | Sequence 2, App1 | 677 | 10 | 50.0 | 69 | 3 | US-08-906-955-74 | Sequence 74, App1 |
| 606 | 10 | 50.0 | 32 | 4 | US-08-933-803A-17 | Sequence 17, App1 | 678 | 10 | 50.0 | 69 | 3 | US-08-906-955-75 | Sequence 75, App1 |
| 607 | 10 | 50.0 | 32 | 4 | US-08-838-151A-16 | Sequence 16, App1 | 679 | 10 | 50.0 | 69 | 3 | US-08-906-955-76 | Sequence 76, App1 |
| 608 | 10 | 50.0 | 33 | 1 | US-08-138-608-10 | Sequence 10, App1 | 680 | 10 | 50.0 | 69 | 3 | US-08-906-955-78 | Sequence 78, App1 |
| 609 | 10 | 50.0 | 33 | 1 | US-08-263-764A-10 | Sequence 10, App1 | 681 | 10 | 50.0 | 69 | 3 | US-08-945-909-74 | Sequence 74, App1 |
| 610 | 10 | 50.0 | 34 | 1 | US-08-347-792-22 | Sequence 22, App1 | 682 | 10 | 50.0 | 69 | 3 | US-08-945-909-75 | Sequence 75, App1 |
| 611 | 10 | 50.0 | 34 | 1 | US-08-431-357-22 | Sequence 22, App1 | 683 | 10 | 50.0 | 69 | 3 | US-08-945-909-76 | Sequence 76, App1 |
| | | | | | | | 684 | 10 | 50.0 | 69 | 3 | US-08-945-909-78 | Sequence 78, App1 |

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|-------|-----|------|----|---|---------------------|--------------------|-------|-----|------|----|---|--------------------|--------------------|
| 665 | 10 | 50.0 | 69 | 4 | US-09-358-972-254 | Sequence 254, App | 758 | 9.8 | 49.0 | 19 | 4 | US-09-342-681C-75 | Sequence 75, Appl |
| C 666 | 10 | 50.0 | 69 | 5 | PCT-US96-06060-74 | Sequence 74, Appl | 759 | 9.8 | 49.0 | 20 | 1 | US-08-154-019-7 | Sequence 7, Appl |
| C 667 | 10 | 50.0 | 69 | 5 | PCT-US96-06060-75 | Sequence 75, Appl | 760 | 9.8 | 49.0 | 20 | 1 | US-08-154-019-14 | Sequence 14, Appl |
| C 668 | 10 | 50.0 | 69 | 5 | PCT-US96-06060-76 | Sequence 76, Appl | 761 | 9.8 | 49.0 | 20 | 1 | US-08-461-333-7 | Sequence 7, Appl |
| C 669 | 10 | 50.0 | 69 | 5 | PCT-US96-06060-78 | Sequence 78, Appl | 762 | 9.8 | 49.0 | 20 | 1 | US-08-461-333-14 | Sequence 14, Appl |
| C 680 | 10 | 50.0 | 70 | 2 | US-08-488-402A-48 | Sequence 48, Appl | C 763 | 9.8 | 49.0 | 20 | 2 | US-08-406-057-15 | Sequence 15, Appl |
| C 681 | 10 | 50.0 | 70 | 2 | US-08-465-591A-60 | Sequence 60, Appl | 764 | 9.8 | 49.0 | 20 | 2 | US-09-044-506A-34 | Sequence 34, Appl |
| C 682 | 10 | 50.0 | 70 | 2 | US-08-465-594A-60 | Sequence 60, Appl | 765 | 9.8 | 49.0 | 20 | 2 | US-08-464-167-7 | Sequence 7, Appl |
| C 683 | 10 | 50.0 | 70 | 2 | US-08-484-552A-48 | Sequence 48, Appl | 766 | 9.8 | 49.0 | 20 | 3 | US-08-464-167-14 | Sequence 14, Appl |
| C 684 | 10 | 50.0 | 70 | 2 | US-08-477-552A-48 | Sequence 48, Appl | 767 | 9.8 | 49.0 | 20 | 3 | US-09-158-313-7 | Sequence 7, Appl |
| C 693 | 10 | 50.0 | 70 | 3 | US-08-481-710-13 | Sequence 13, Appl | 768 | 9.8 | 49.0 | 20 | 3 | US-09-158-313-14 | Sequence 14, Appl |
| C 695 | 10 | 50.0 | 70 | 3 | US-08-973-124-245 | Sequence 245, App | 769 | 9.8 | 49.0 | 20 | 3 | US-08-476-798-7 | Sequence 7, Appl |
| C 696 | 10 | 50.0 | 70 | 4 | PCT-US96-08014-245 | Sequence 245, App | 770 | 9.8 | 49.0 | 20 | 3 | US-08-476-798-14 | Sequence 14, Appl |
| C 697 | 10 | 50.0 | 70 | 5 | PCT-US96-09472-48 | Sequence 48, Appl | 771 | 9.8 | 49.0 | 20 | 4 | US-09-517-584A-27 | Sequence 27, Appl |
| C 698 | 10 | 50.0 | 70 | 5 | PCT-US96-09472-48 | Sequence 48, Appl | 772 | 9.8 | 49.0 | 20 | 4 | US-09-517-584A-81 | Sequence 81, Appl |
| C 699 | 10 | 50.0 | 70 | 5 | PCT-US96-09537-13 | Sequence 13, Appl | C 773 | 9.8 | 49.0 | 20 | 4 | US-09-092-077-32 | Sequence 32, Appl |
| C 700 | 10 | 50.0 | 75 | 2 | US-08-624-581-4 | Sequence 4, Appl | 774 | 9.8 | 49.0 | 20 | 4 | US-09-487-445-31 | Sequence 31, Appl |
| C 701 | 10 | 50.0 | 76 | 1 | US-08-442-572-42 | Sequence 42, Appl | C 775 | 9.8 | 49.0 | 20 | 4 | US-08-958-316-15 | Sequence 15, Appl |
| C 702 | 10 | 50.0 | 76 | 1 | US-08-361-795-42 | Sequence 42, Appl | C 776 | 9.8 | 49.0 | 21 | 1 | US-08-412-614-100 | Sequence 100, App |
| C 703 | 10 | 50.0 | 76 | 5 | PCT-US95-05600-125 | Sequence 125, App | C 777 | 9.8 | 49.0 | 21 | 1 | US-07-665-960A-48 | Sequence 48, Appl |
| C 704 | 10 | 50.0 | 78 | 3 | US-08-945-734-18 | Sequence 18, Appl | C 778 | 9.8 | 49.0 | 21 | 1 | US-08-106-802-48 | Sequence 48, Appl |
| C 705 | 10 | 50.0 | 78 | 4 | US-08-729-601A-30 | Sequence 30, Appl | C 779 | 9.8 | 49.0 | 21 | 2 | US-08-635-761-100 | Sequence 100, App |
| C 706 | 10 | 50.0 | 78 | 4 | US-09-258-797-18 | Sequence 18, Appl | C 780 | 9.8 | 49.0 | 21 | 2 | US-08-703-136-48 | Sequence 48, Appl |
| C 707 | 10 | 50.0 | 78 | 4 | US-09-025-203-28 | Sequence 28, Appl | C 781 | 9.8 | 49.0 | 21 | 2 | US-08-765-332-156 | Sequence 156, App |
| C 708 | 10 | 50.0 | 78 | 5 | PCT-US96-09451-18 | Sequence 18, Appl | C 782 | 9.8 | 49.0 | 21 | 3 | US-08-927-219-29 | Sequence 29, App |
| C 709 | 10 | 50.0 | 79 | 1 | US-08-472-255A-142 | Sequence 142, App | C 783 | 9.8 | 49.0 | 21 | 4 | US-08-927-219-31 | Sequence 31, Appl |
| C 710 | 10 | 50.0 | 79 | 1 | US-08-479-724A-142 | Sequence 142, App | C 784 | 9.8 | 49.0 | 21 | 4 | US-09-312-520-100 | Sequence 100, App |
| C 711 | 10 | 50.0 | 79 | 3 | US-08-472-256B-142 | Sequence 142, App | C 785 | 9.8 | 49.0 | 21 | 4 | US-09-448-894-156 | Sequence 156, App |
| C 712 | 10 | 50.0 | 79 | 4 | US-08-952-793-142 | Sequence 142, App | C 786 | 9.8 | 49.0 | 22 | 4 | US-09-240-918-18 | Sequence 18, Appl |
| C 713 | 10 | 50.0 | 79 | 4 | US-08-952-793-175 | Sequence 175, App | C 787 | 9.8 | 49.0 | 22 | 4 | US-08-949-155-47 | Sequence 47, Appl |
| C 714 | 10 | 50.0 | 79 | 5 | PCT-US96-09455A-142 | Sequence 142, App | C 788 | 9.8 | 49.0 | 23 | 2 | US-08-859-998-524 | Sequence 524, App |
| C 715 | 10 | 50.0 | 79 | 5 | PCT-US96-09455A-175 | Sequence 175, App | C 789 | 9.8 | 49.0 | 23 | 2 | US-08-784-386-6 | Sequence 6, Appl |
| C 716 | 10 | 50.0 | 87 | 3 | US-07-927-391-11 | Sequence 11, Appl | C 790 | 9.8 | 49.0 | 23 | 4 | US-09-225-928-524 | Sequence 524, App |
| C 717 | 10 | 50.0 | 96 | 1 | US-08-472-255A-54 | Sequence 54, Appl | C 791 | 9.8 | 49.0 | 24 | 1 | US-08-158-233B-6 | Sequence 6, Appl |
| C 718 | 10 | 50.0 | 96 | 1 | US-08-479-724A-54 | Sequence 54, Appl | C 792 | 9.8 | 49.0 | 24 | 2 | US-09-001-273-4 | Sequence 4, Appl |
| C 719 | 10 | 50.0 | 96 | 3 | US-08-472-256B-54 | Sequence 54, Appl | C 793 | 9.8 | 49.0 | 24 | 3 | US-09-061-400-4 | Sequence 4, Appl |
| C 720 | 10 | 50.0 | 96 | 4 | US-08-484-322-23 | Sequence 23, Appl | C 794 | 9.8 | 49.0 | 24 | 4 | US-08-843-459A-4 | Sequence 4, Appl |
| C 721 | 10 | 50.0 | 96 | 4 | US-08-952-793-54 | Sequence 54, Appl | C 795 | 9.8 | 49.0 | 26 | 1 | US-07-791-213D-68 | Sequence 68, Appl |
| C 722 | 10 | 50.0 | 98 | 1 | PCT-US96-09455A-54 | Sequence 54, Appl | C 796 | 9.8 | 49.0 | 26 | 1 | US-08-293-150A-68 | Sequence 68, Appl |
| C 723 | 10 | 50.0 | 98 | 1 | US-08-472-255A-52 | Sequence 52, Appl | C 797 | 9.8 | 49.0 | 26 | 2 | US-08-868-162A-4 | Sequence 4, Appl |
| C 724 | 10 | 50.0 | 98 | 1 | US-08-479-724A-52 | Sequence 52, Appl | C 798 | 9.8 | 49.0 | 26 | 4 | US-09-002-361-34 | Sequence 34, Appl |
| C 725 | 10 | 50.0 | 98 | 4 | US-08-472-256B-52 | Sequence 52, Appl | C 799 | 9.8 | 49.0 | 27 | 2 | US-08-452-722A-8 | Sequence 8, Appl |
| C 726 | 10 | 50.0 | 98 | 5 | US-08-952-793-52 | Sequence 52, Appl | C 800 | 9.8 | 49.0 | 27 | 3 | US-08-985-162-992 | Sequence 992, App |
| C 727 | 10 | 50.0 | 98 | 5 | PCT-US96-09455A-52 | Sequence 52, Appl | C 801 | 9.8 | 49.0 | 27 | 3 | US-08-859-998-594 | Sequence 594, App |
| C 728 | 10 | 50.0 | 99 | 3 | US-07-927-391-12 | Sequence 12, Appl | C 802 | 9.8 | 49.0 | 28 | 2 | US-08-859-998-1074 | Sequence 1074, App |
| C 729 | 9.8 | 49.0 | 15 | 2 | US-08-585-684B-262 | Sequence 262, App | C 803 | 9.8 | 49.0 | 28 | 2 | US-09-225-928-594 | Sequence 594, App |
| C 730 | 9.8 | 49.0 | 15 | 2 | US-08-585-684B-263 | Sequence 263, App | C 804 | 9.8 | 49.0 | 28 | 4 | US-08-132-990A-15 | Sequence 15, Appl |
| C 731 | 9.8 | 49.0 | 15 | 4 | US-09-038-073-262 | Sequence 263, App | C 805 | 9.8 | 49.0 | 29 | 2 | US-08-960-022-27 | Sequence 27, Appl |
| C 732 | 9.8 | 49.0 | 15 | 4 | US-09-038-073-263 | Sequence 263, App | C 806 | 9.8 | 49.0 | 29 | 2 | US-08-982-022-11 | Sequence 11, Appl |
| C 733 | 9.8 | 49.0 | 15 | 4 | US-09-081-646-617 | Sequence 617, App | C 807 | 9.8 | 49.0 | 30 | 1 | US-08-480-784-50 | Sequence 50, Appl |
| C 734 | 9.8 | 49.0 | 16 | 2 | US-08-590-571-43 | Sequence 43, Appl | C 808 | 9.8 | 49.0 | 30 | 1 | US-08-483-554B-50 | Sequence 50, Appl |
| C 735 | 9.8 | 49.0 | 16 | 3 | US-08-906-691-30 | Sequence 30, Appl | C 809 | 9.8 | 49.0 | 30 | 1 | US-08-488-011B-50 | Sequence 50, Appl |
| C 736 | 9.8 | 49.0 | 17 | 3 | US-08-985-162-381 | Sequence 381, App | C 810 | 9.8 | 49.0 | 30 | 1 | US-08-202-186-2 | Sequence 2, Appl |
| C 737 | 9.8 | 49.0 | 17 | 4 | US-08-584-040-5598 | Sequence 5598, App | C 811 | 9.8 | 49.0 | 30 | 1 | US-08-487-002-50 | Sequence 50, Appl |
| C 738 | 9.8 | 49.0 | 18 | 1 | US-07-670-611-6 | Sequence 6, Appl | C 812 | 9.8 | 49.0 | 30 | 1 | US-08-487-002-50 | Sequence 50, Appl |
| C 739 | 9.8 | 49.0 | 18 | 1 | US-08-220-674-6 | Sequence 6, Appl | C 813 | 9.8 | 49.0 | 30 | 1 | US-08-483-554B-50 | Sequence 50, Appl |
| C 740 | 9.8 | 49.0 | 18 | 1 | US-08-445-186-6 | Sequence 6, Appl | C 814 | 9.8 | 49.0 | 30 | 1 | US-08-488-011B-50 | Sequence 50, Appl |
| C 741 | 9.8 | 49.0 | 18 | 2 | US-08-446-549-6 | Sequence 6, Appl | C 815 | 9.8 | 49.0 | 30 | 1 | US-08-202-186-2 | Sequence 2, Appl |
| C 742 | 9.8 | 49.0 | 18 | 2 | US-08-446-550-6 | Sequence 6, Appl | C 816 | 9.8 | 49.0 | 30 | 3 | US-08-513-974B-135 | Sequence 135, App |
| C 743 | 9.8 | 49.0 | 18 | 2 | US-09-205-922-65 | Sequence 65, Appl | C 817 | 9.8 | 49.0 | 30 | 3 | US-08-850-727-50 | Sequence 50, Appl |
| C 744 | 9.8 | 49.0 | 18 | 3 | US-09-189-760-4 | Sequence 4, Appl | C 818 | 9.8 | 49.0 | 30 | 5 | PCT-US95-10202-50 | Sequence 50, Appl |
| C 745 | 9.8 | 49.0 | 18 | 3 | US-09-188-811-4 | Sequence 4, Appl | C 819 | 9.8 | 49.0 | 30 | 5 | PCT-US95-10203-50 | Sequence 50, Appl |
| C 746 | 9.8 | 49.0 | 18 | 3 | US-09-339-993-32 | Sequence 32, Appl | C 820 | 9.8 | 49.0 | 30 | 5 | PCT-US95-10220-50 | Sequence 50, Appl |
| C 747 | 9.8 | 49.0 | 18 | 3 | US-09-163-162-30 | Sequence 30, Appl | C 821 | 9.8 | 49.0 | 31 | 1 | US-08-597-236-18 | Sequence 18, Appl |
| C 748 | 9.8 | 49.0 | 18 | 3 | US-09-280-409-39 | Sequence 39, Appl | C 822 | 9.8 | 49.0 | 31 | 1 | US-08-746-682A-18 | Sequence 18, Appl |
| C 749 | 9.8 | 49.0 | 18 | 3 | US-09-280-409-101 | Sequence 101, App | C 823 | 9.8 | 49.0 | 33 | 2 | US-08-739-109A-4 | Sequence 3, Appl |
| C 750 | 9.8 | 49.0 | 18 | 3 | US-09-289-466-15 | Sequence 15, Appl | C 824 | 9.8 | 49.0 | 33 | 2 | US-08-739-109A-4 | Sequence 4, Appl |
| C 751 | 9.8 | 49.0 | 18 | 4 | US-08-961-810-105 | Sequence 105, App | C 825 | 9.8 | 49.0 | 35 | 1 | US-08-095-726-74 | Sequence 74, Appl |
| C 752 | 9.8 | 49.0 | 18 | 4 | US-09-286-407-30 | Sequence 30, App | C 826 | 9.8 | 49.0 | 35 | 1 | US-08-096-623A-79 | Sequence 79, Appl |
| C 753 | 9.8 | 49.0 | 18 | 4 | US-08-352-902D-105 | Sequence 105, App | C 827 | 9.8 | 49.0 | 35 | 2 | US-08-132-990A-11 | Sequence 11, Appl |
| C 754 | 9.8 | 49.0 | 18 | 4 | US-09-514-422-4 | Sequence 4, Appl | C 828 | 9.8 | 49.0 | 38 | 4 | US-09-232-479-24 | Sequence 24, Appl |
| C 755 | 9.8 | 49.0 | 18 | 4 | US-09-496-694B-39 | Sequence 39, Appl | C 829 | 9.8 | 49.0 | 40 | 1 | US-08-191-866D-88 | Sequence 88, Appl |
| C 756 | 9.8 | 49.0 | 18 | 4 | US-09-496-694B-79 | Sequence 79, Appl | C 830 | 9.8 | 49.0 | 40 | 3 | US-08-480-640A-140 | Sequence 140, App |
| C 757 | 9.8 | 49.0 | 19 | 1 | US-08-222-177A-286 | Sequence 286, App | | | | | | | |

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|-------|-----|------|----|---|--------------------|--------------------|-----|-----|------|-----|---|--------------------|--------------------|
| C 831 | 9.8 | 49.0 | 40 | 3 | US-08-295-802-140 | Sequence 140, App | 904 | 9.8 | 49.0 | 86 | 2 | US-08-480-0208-3 | Sequence 3, Appl1 |
| C 832 | 9.8 | 49.0 | 40 | 4 | US-08-686-968C-67 | Sequence 67, Appl | 905 | 9.8 | 49.0 | 86 | 2 | US-08-910-618-3 | Sequence 3, Appl1 |
| C 833 | 9.8 | 49.0 | 40 | 4 | US-08-488-237A-140 | Sequence 140, App | 906 | 9.8 | 49.0 | 86 | 4 | US-08-910-372-3 | Sequence 3, Appl1 |
| C 834 | 9.8 | 49.0 | 40 | 4 | US-08-375-992A-140 | Sequence 140, App | 907 | 9.8 | 49.0 | 86 | 4 | US-08-484-999A-3 | Sequence 3, Appl1 |
| C 835 | 9.8 | 49.0 | 42 | 2 | US-08-132-990A-16 | Sequence 16, Appl | 908 | 9.8 | 49.0 | 86 | 4 | US-09-165-616-68 | Sequence 68, App |
| C 836 | 9.8 | 49.0 | 42 | 2 | US-08-343-443B-61 | Sequence 61, Appl | 909 | 9.8 | 49.0 | 87 | 1 | US-08-433-126A-106 | Sequence 106, App |
| C 837 | 9.8 | 49.0 | 43 | 2 | US-08-724-354D-21 | Sequence 21, Appl | 910 | 9.8 | 49.0 | 87 | 1 | US-08-433-126A-107 | Sequence 107, App |
| C 838 | 9.8 | 49.0 | 43 | 3 | US-09-270-984A-21 | Sequence 21, Appl | 911 | 9.8 | 49.0 | 87 | 1 | US-08-433-126A-106 | Sequence 106, App |
| C 839 | 9.8 | 49.0 | 44 | 2 | US-08-850-049-124 | Sequence 124, App | 912 | 9.8 | 49.0 | 87 | 1 | US-08-433-124A-107 | Sequence 107, App |
| C 840 | 9.8 | 49.0 | 44 | 2 | US-08-050-478-124 | Sequence 124, App | 913 | 9.8 | 49.0 | 87 | 1 | US-08-433-124A-107 | Sequence 107, App |
| C 841 | 9.8 | 49.0 | 44 | 4 | US-09-414-117-124 | Sequence 124, App | 914 | 9.8 | 49.0 | 87 | 3 | US-08-976-413A-106 | Sequence 106, App |
| C 842 | 9.8 | 49.0 | 45 | 6 | 5455158-17 | Patent No. 5455158 | 915 | 9.8 | 49.0 | 87 | 3 | US-08-976-413A-107 | Sequence 107, App |
| C 843 | 9.8 | 49.0 | 47 | 2 | US-08-482-842B-5 | Sequence 5, Appl1 | 916 | 9.8 | 49.0 | 87 | 5 | PCT-US96-06059-106 | Sequence 106, App |
| C 844 | 9.8 | 49.0 | 47 | 4 | US-09-174-465D-14 | Sequence 14, Appl | 917 | 9.8 | 49.0 | 90 | 4 | PCT-US96-06059-107 | Sequence 107, App |
| C 845 | 9.8 | 49.0 | 48 | 1 | US-08-472-194A-29 | Sequence 29, Appl | 918 | 9.8 | 49.0 | 90 | 4 | US-08-974-549A-647 | Sequence 647, App |
| C 846 | 9.8 | 49.0 | 48 | 2 | US-09-001-925-2 | Sequence 2, Appl1 | 919 | 9.8 | 49.0 | 90 | 5 | US-08-974-549A-648 | Sequence 648, App |
| C 847 | 9.8 | 49.0 | 48 | 2 | US-09-262-142-29 | Sequence 29, Appl | 920 | 9.8 | 49.0 | 91 | 5 | PCT-US94-08052-12 | Sequence 12, Appl |
| C 848 | 9.8 | 49.0 | 48 | 4 | US-08-849-567A-29 | Sequence 29, Appl | 921 | 9.8 | 49.0 | 93 | 3 | US-08-973-124-142 | Sequence 12, Appl |
| C 849 | 9.8 | 49.0 | 53 | 1 | US-08-184-607-8 | Sequence 8, Appl1 | 922 | 9.8 | 49.0 | 94 | 1 | US-08-618-693-53 | Sequence 53, Appl |
| C 850 | 9.8 | 49.0 | 53 | 1 | US-08-184-607-8 | Sequence 8, Appl1 | 923 | 9.8 | 49.0 | 94 | 1 | US-08-479-783A-53 | Sequence 53, Appl |
| C 851 | 9.8 | 49.0 | 55 | 1 | US-07-967-693-44 | Sequence 44, Appl | 924 | 9.8 | 49.0 | 94 | 1 | US-08-479-725-53 | Sequence 53, Appl |
| C 852 | 9.8 | 49.0 | 55 | 1 | US-08-195-072-42 | Sequence 42, Appl | 925 | 9.8 | 49.0 | 94 | 1 | US-08-618-693-53 | Sequence 53, Appl |
| C 853 | 9.8 | 49.0 | 55 | 1 | US-08-195-735-42 | Sequence 42, Appl | 926 | 9.8 | 49.0 | 94 | 4 | US-08-973-124-142 | Sequence 12, App |
| C 854 | 9.8 | 49.0 | 55 | 1 | US-08-195-747-42 | Sequence 42, Appl | 927 | 9.8 | 49.0 | 94 | 4 | US-08-991-743C-53 | Sequence 53, Appl |
| C 855 | 9.8 | 49.0 | 55 | 1 | US-08-446-884-42 | Sequence 42, Appl | 928 | 9.8 | 49.0 | 94 | 5 | PCT-US96-08014-142 | Sequence 142, App |
| C 856 | 9.8 | 49.0 | 55 | 1 | US-08-195-073-42 | Sequence 42, Appl | 929 | 9.8 | 49.0 | 96 | 1 | US-08-479-783A-64 | Sequence 64, Appl |
| C 857 | 9.8 | 49.0 | 55 | 1 | US-08-198-175-42 | Sequence 42, Appl | 930 | 9.8 | 49.0 | 96 | 1 | US-08-479-725-64 | Sequence 64, Appl |
| C 858 | 9.8 | 49.0 | 55 | 2 | US-08-443-153-42 | Sequence 42, Appl | 931 | 9.8 | 49.0 | 96 | 3 | US-08-618-693-64 | Sequence 64, Appl |
| C 859 | 9.8 | 49.0 | 55 | 3 | US-08-442-807-42 | Sequence 42, Appl | 932 | 9.8 | 49.0 | 96 | 4 | US-08-484-322-44 | Sequence 44, Appl |
| C 860 | 9.8 | 49.0 | 57 | 1 | US-08-261-670-18 | Sequence 18, Appl | 933 | 9.8 | 49.0 | 96 | 4 | US-08-973-124-153 | Sequence 153, App |
| C 861 | 9.8 | 49.0 | 57 | 5 | PCT-US93-02115-18 | Sequence 18, Appl | 934 | 9.8 | 49.0 | 96 | 4 | US-08-991-743C-64 | Sequence 64, Appl |
| C 862 | 9.8 | 49.0 | 59 | 4 | US-09-275-850-192 | Sequence 192, App | 935 | 9.8 | 49.0 | 98 | 5 | PCT-US96-08014-153 | Sequence 153, App |
| C 863 | 9.8 | 49.0 | 59 | 5 | US-08-483-511-35 | Sequence 35, Appl | 936 | 9.8 | 49.0 | 100 | 1 | US-08-441-430-5 | Sequence 5, Appl1 |
| C 864 | 9.8 | 49.0 | 63 | 1 | PCT-US93-01009-35 | Sequence 35, Appl | 937 | 9.8 | 49.0 | 100 | 1 | US-08-145-705A-5 | Sequence 5, Appl1 |
| C 865 | 9.8 | 49.0 | 63 | 1 | US-07-940-652-8 | Sequence 8, Appl1 | 938 | 9.8 | 49.0 | 18 | 3 | US-09-347-114A-69 | Sequence 69, Appl |
| C 866 | 9.8 | 49.0 | 63 | 1 | US-08-235-553-8 | Sequence 8, Appl1 | 939 | 9.8 | 49.0 | 18 | 3 | PCT-US94-05700-5 | Sequence 5, Appl1 |
| C 867 | 9.8 | 49.0 | 64 | 3 | US-08-850-961-15 | Sequence 15, Appl | 940 | 9.8 | 49.0 | 18 | 3 | US-09-205-143-70 | Sequence 70, Appl |
| C 868 | 9.8 | 49.0 | 64 | 3 | US-09-479-776-15 | Sequence 15, Appl | 941 | 9.8 | 49.0 | 19 | 3 | US-08-717-294-43 | Sequence 43, Appl |
| C 869 | 9.8 | 49.0 | 66 | 1 | US-07-750-080A-31 | Sequence 31, Appl | 942 | 9.8 | 49.0 | 19 | 3 | US-08-245-742A-5 | Sequence 5, Appl1 |
| C 870 | 9.8 | 49.0 | 66 | 3 | US-08-651-472-31 | Sequence 31, Appl | 943 | 9.8 | 49.0 | 19 | 3 | US-08-465-983-5 | Sequence 5, Appl1 |
| C 871 | 9.8 | 49.0 | 66 | 3 | US-08-358-928-31 | Sequence 31, Appl | 944 | 9.8 | 49.0 | 19 | 4 | US-08-876-496-5 | Sequence 5, Appl1 |
| C 872 | 9.8 | 49.0 | 66 | 2 | US-08-432-871C-67 | Sequence 67, Appl | 945 | 9.8 | 49.0 | 19 | 5 | US-09-347-114A-69 | Sequence 69, Appl |
| C 873 | 9.8 | 49.0 | 71 | 2 | US-08-477-527A-64 | Sequence 64, Appl | 946 | 9.8 | 49.0 | 20 | 1 | US-08-599-252-113 | Sequence 113, App |
| C 874 | 9.8 | 49.0 | 71 | 3 | US-08-481-710-64 | Sequence 64, Appl | 947 | 9.8 | 49.0 | 20 | 1 | US-08-436-074-44 | Sequence 44, Appl |
| C 875 | 9.8 | 49.0 | 71 | 4 | US-09-364-902-20 | Sequence 20, Appl | 948 | 9.8 | 49.0 | 20 | 2 | US-08-726-012B-14 | Sequence 14, Appl |
| C 876 | 9.8 | 49.0 | 71 | 4 | US-09-364-902-20 | Sequence 20, Appl | 949 | 9.8 | 49.0 | 20 | 2 | US-09-289-368-35 | Sequence 35, Appl |
| C 877 | 9.8 | 49.0 | 71 | 4 | US-09-364-902-23 | Sequence 23, Appl | 950 | 9.8 | 49.0 | 20 | 3 | US-09-226-568-10 | Sequence 30, Appl |
| C 878 | 9.8 | 49.0 | 71 | 4 | US-09-020-956-118 | Sequence 118, App | 951 | 9.8 | 49.0 | 20 | 3 | US-09-280-799-152 | Sequence 152, App |
| C 879 | 9.8 | 49.0 | 71 | 4 | US-09-030-607-118 | Sequence 118, App | 952 | 9.8 | 49.0 | 20 | 4 | US-08-938-669A-9 | Sequence 9, Appl1 |
| C 880 | 9.8 | 49.0 | 71 | 5 | US-09-439-313-118 | Sequence 118, App | 953 | 9.8 | 49.0 | 20 | 4 | US-09-435-286-99 | Sequence 99, Appl |
| C 881 | 9.8 | 49.0 | 71 | 5 | PCT-US96-09537-64 | Sequence 64, Appl | 954 | 9.8 | 49.0 | 20 | 4 | US-09-428-219-71 | Sequence 71, Appl |
| C 882 | 9.8 | 49.0 | 72 | 1 | US-07-936-267A-3 | Sequence 3, Appl1 | 955 | 9.8 | 49.0 | 20 | 4 | US-09-277-020-16 | Sequence 16, Appl |
| C 883 | 9.8 | 49.0 | 72 | 1 | US-07-936-267A-6 | Sequence 6, Appl1 | 956 | 9.8 | 49.0 | 20 | 5 | PCT-US96-06552-113 | Sequence 113, App |
| C 884 | 9.8 | 49.0 | 72 | 1 | US-08-484-512A-3 | Sequence 3, Appl1 | 957 | 9.8 | 49.0 | 20 | 5 | PCT-US96-06583-114 | Sequence 114, App |
| C 885 | 9.8 | 49.0 | 72 | 1 | US-08-484-512A-6 | Sequence 6, Appl1 | 958 | 9.8 | 49.0 | 21 | 1 | US-07-665-960A-33 | Sequence 33, App |
| C 886 | 9.8 | 49.0 | 72 | 5 | PCT-US92-07357-3 | Sequence 3, Appl1 | 959 | 9.8 | 49.0 | 21 | 1 | US-08-106-802-34 | Sequence 34, Appl |
| C 887 | 9.8 | 49.0 | 75 | 1 | PCT-US92-07357-6 | Sequence 6, Appl1 | 960 | 9.8 | 49.0 | 21 | 1 | US-08-753-147-115 | Sequence 115, App |
| C 888 | 9.8 | 49.0 | 77 | 2 | US-08-242-098-29 | Sequence 29, App | 961 | 9.8 | 49.0 | 21 | 1 | US-08-482-577B-46 | Sequence 46, Appl |
| C 889 | 9.8 | 49.0 | 77 | 2 | US-08-477-527A-219 | Sequence 219, App | 962 | 9.8 | 49.0 | 21 | 1 | US-08-482-577B-46 | Sequence 46, Appl |
| C 890 | 9.8 | 49.0 | 77 | 5 | PCT-US96-09537-219 | Sequence 219, App | 963 | 9.8 | 49.0 | 21 | 2 | US-08-703-136-34 | Sequence 34, Appl |
| C 891 | 9.8 | 49.0 | 81 | 1 | US-08-238-863-80 | Sequence 80, App | 964 | 9.8 | 49.0 | 21 | 2 | US-08-288-508C-37 | Sequence 37, Appl |
| C 892 | 9.8 | 49.0 | 81 | 1 | US-08-443-407-80 | Sequence 80, App | 965 | 9.8 | 49.0 | 21 | 2 | US-08-288-508C-35 | Sequence 35, Appl |
| C 893 | 9.8 | 49.0 | 81 | 5 | PCT-US95-05600-224 | Sequence 224, App | 966 | 9.8 | 49.0 | 21 | 3 | US-09-255-888-3 | Sequence 3, Appl1 |
| C 894 | 9.8 | 49.0 | 82 | 1 | US-08-030-335-3 | Sequence 3, Appl1 | 967 | 9.8 | 49.0 | 21 | 3 | US-08-289-222E-48 | Sequence 48, App |
| C 895 | 9.8 | 49.0 | 84 | 1 | US-07-936-267A-4 | Sequence 4, Appl1 | 968 | 9.8 | 49.0 | 21 | 3 | US-08-289-222E-50 | Sequence 50, Appl |
| C 896 | 9.8 | 49.0 | 84 | 1 | US-07-936-267A-7 | Sequence 7, Appl1 | 969 | 9.8 | 49.0 | 21 | 4 | US-09-218-176-27 | Sequence 27, Appl |
| C 897 | 9.8 | 49.0 | 84 | 1 | US-08-484-512A-4 | Sequence 4, Appl1 | 970 | 9.8 | 49.0 | 21 | 4 | US-09-054-526B-48 | Sequence 48, App |
| C 898 | 9.8 | 49.0 | 84 | 1 | US-08-484-512A-7 | Sequence 7, Appl1 | 971 | 9.8 | 49.0 | 21 | 4 | US-09-054-526B-50 | Sequence 50, Appl |
| C 899 | 9.8 | 49.0 | 84 | 5 | PCT-US92-07357-4 | Sequence 4, Appl1 | 972 | 9.8 | 49.0 | 21 | 4 | US-08-943-731-262 | Sequence 262, App |
| C 900 | 9.8 | 49.0 | 84 | 5 | PCT-US92-07357-7 | Sequence 7, Appl1 | 973 | 9.8 | 49.0 | 21 | 6 | 5171843-13 | Patent No. 5171843 |
| C 901 | 9.8 | 49.0 | 86 | 1 | US-07-964-624D-68 | Sequence 68, Appl | 974 | 9.8 | 49.0 | 22 | 2 | US-08-588-993-35 | Sequence 35, Appl |
| C 902 | 9.8 | 49.0 | 86 | 1 | US-08-442-062-68 | Sequence 68, Appl | 975 | 9.8 | 49.0 | 22 | 2 | US-08-588-976-35 | Sequence 35, Appl |
| C 903 | 9.8 | 49.0 | 86 | 1 | US-08-748-697A-68 | Sequence 68, Appl | 976 | 9.8 | 49.0 | 22 | 3 | US-08-448-446B-11 | Sequence 11, Appl |

977 9.6 48.0 23 1 US-07-841-662-4 Sequence 4, Appli
978 9.6 48.0 23 1 US-07-841-662-8 Sequence 8, Appli
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981 9.6 48.0 23 1 US-08-399-675-15 Sequence 15, Appli
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983 9.6 48.0 23 1 US-08-122-795B-8 Sequence 8, Appli
984 9.6 48.0 23 1 US-08-307-619-11 Sequence 11, Appli
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991 9.6 48.0 23 4 US-09-039-982A-4 Sequence 4, Appli
992 9.6 48.0 23 4 US-09-039-982A-8 Sequence 8, Appli
993 9.6 48.0 23 4 US-09-039-641-4 Sequence 4, Appli
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996 9.6 48.0 23 4 US-09-039-762A-8 Sequence 8, Appli
997 9.6 48.0 23 5 PCR-US93-01557-4 Sequence 4, Appli
998 9.6 48.0 23 5 PCR-US93-01557-8 Sequence 8, Appli
999 9.6 48.0 23 5 PCR-US94-09963A-8 Sequence 8, Appli
c1000 9.6 48.0 24 1 US-08-055-390-1 Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-103-875-107
; Sequence 107, Application US/09103875A
; Patent No. 6221849
; GENERAL INFORMATION:
; APPLICANT: Sayf, Moshe
; APPLICANT: Bigey, Pascal
; APPLICANT: Ramchandani, Shyam
; TITLE OF INVENTION: DNA METHYLTRANSFERASE GENOMIC SEQUENCES AND ANTISENSE
; FILE REFERENCE: 106101.194
; CURRENT APPLICATION NUMBER: US/09/103,875A
; CURRENT FILING DATE: 1998-06-24
; EARLIER APPLICATION NUMBER: 60/069,865
; EARLIER FILING DATE: 1997-12-17
; EARLIER APPLICATION NUMBER: 08/866,340
; EARLIER FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 107
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide
US-09-103-875-107

Query Match 64.0%; Score 12.8; DB 4; Length 20;
Best Local Similarity 87.5%; Pred. No. 3.8e+02;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

RESULT 2
US-08-117-952-266
; Sequence 266, Application US/08117952
; Patent No. 5851760
; GENERAL INFORMATION:
; APPLICANT: Evans, Glen A.

APPLICANT: Smith, Michael W.
TITLE OF INVENTION: METHOD FOR GENERATION OF SEQUENCE
TITLE OF INVENTION: SAMPLED MAPS OF COMPLEX GENOMES
NUMBER OF SEQUENCES: 797
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,952
FILING DATE: 07-SEP-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/078,471
FILING DATE: 15-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9423
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 266:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-117-952-266

Query Match 63.0%; Score 12.6; DB 2; Length 22;
Best Local Similarity 78.9%; Pred. No. 4.9e+02;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

RESULT 3
US-08-483-316-8/C
; Sequence 8, Application US/08483316
; Patent No. 6045802
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; TITLE OF INVENTION: ENHANCED IMMUNE RESPONSE
; TITLE OF INVENTION: TO AN ANTIGEN BY A COMPOSITION OF A
; TITLE OF INVENTION: RECOMBINANT VIRUS EXPRESSING THE ANTIGEN WITH
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.50 INCH, 1.44 MB STORAGE
COMPUTER: IBM PC COMPATIBLE

ATTORNEY/AGENT INFORMATION
NAME: BROWN, KATHRYN M.

MOLECULE TYPE: DNA (genomic)

US-07-994-469A-32

| | | | | |
|--------------------------|--------|--------------------|-----------|------------|
| Query Match | 63.0%; | Score 12.6; | DB 1; | Length 51; |
| Best Local Similarity | 78.9%; | Pred. No. 5.4e+02; | | |
| Matches 15; Conservative | 0; | Mismatches 4; | Indels 0; | Gaps 0; |

| | | | |
|----|---|-------|----|
| Qy | 1 | gaac | 19 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Db | 8 | GAAGG | 26 |
| | | GTGAC | |
| | | CGACT | |
| | | CAGC | |

RESULT 6
US-07-964-624D-55

1 GENERAL INFORMATION: 1
2 APPLICANT: GOLD, LARRY M. 2
3 APPLICANT: TUBERK, CRAIG 3
4 TITLE OF INVENTION: METHOD OF SELECTING NUCLEIC 4
5 TITLE OF INVENTION: ACIDS ON THE BASIS OF 5
6 TITLE OF INVENTION: STRUCTURE 6
7 NUMBER OF SEQUENCES: 83 7
8 CORRESPONDENCE ADDRESS: 8

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB

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APPLICATION NUMBER: US/07/964,624D
FILING DATE: 21-OCTOBER-1992

? PRIOR APPLICATION DATE: 07/714,131
 ? APPLICATION NUMBER: 07/714,131
 ? FILING DATE: 10-JUNE-1991
 ? PRIOR APPLICATION DATA:
 ? APPLICATION NUMBER: 07/536,428
 ? FILING DATE: 11-JUNE-1990
 ? ATTORNEY/AGENT INFORMATION:

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SEQUENCE CHARACTERISTICS:
    LENGTH: 85 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: single
    TOPOLOGY: linear
US-07-964-624D-55

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| Best Local Similarity | 68.48; | Pred. No. 5.7e+02; | | |
| Matches 13; Conservative | | 2; Mismatches 4; | Indels 0; | Gaps 0; |

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QY      2 aaacgtgaggactcagca 20
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Db     39 ACACGUAAGUGACUCUGCA 57

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RESULT 7
US-08-442-062-55
; Sequence 55, Application US/084420625
; Patent No. 5595877
; GENERAL INFORMATION:
; APPLICANT: GOLD, LARRY M.

? APPLICANT: TUERK, CRAIG
 ? TITLE OF INVENTION: METHOD OF SELECTING NUCLEOTID
 ? TITLE OF INVENTION: ACIDS ON THE BASIS OF
 ? TITLE OF INVENTION: STRUCTURE
 ? NUMBER OF SEQUENCES: 83
 ? CORRESPONDENCE ADDRESS:
 ? ADDRESS: Gieseher, Postfach 1110

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1  COMPUTER READABLE FORM:
2  MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB
3  COMPUTER: IBM compatible
4  OPERATING SYSTEM: MS-DOS
5  SOFTWARE: WordPerfect 5.1
6  CURRENT APPLICATION DATA:
7  APPLICATION NUMBER: US/08/442,062
8  FILING DATE:
9  PRIOR APPLICATION DATA:

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428

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? INFORMATION FOR SEQ ID NO: 55
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? SEQUENCE CHARACTERISTICS:
?
?   LENGTH: 85 base pairs
?   TYPE: nucleic acid
?   STRANDEDNESS: single
?   TOPOLOGY: linear
?
US-08-442-062-55

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|-----------------------|-----------------|--------------------|-----------|------------|
| Query Match | 63.0%; | Score 12.6; | DB 1; | Length 85; |
| Best Local Similarity | 68.4%; | Pred. No. 5.7e+02; | | |
| Matches 13; | Conservative 2; | Mismatches 4; | Indels 0; | Gaps 0 |

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QY      2 aaacgtgaggactcagca 20
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Db     39 ACACGUAGUGACUCUGCA 57
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RESULT 8
 US-08-748-697A-55
 : Sequence 55, Application US/08748697A
 : Patent No. 5817785
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: GOLD, LARRY M.
 :
 : APPLICANT: TUEBK, CRAIG
 :
 : TITLE OF INVENTION: METHODS OF PRODUCING NUCLEOTID
 :
 : TITLE OF INVENTION: ACID LIGANDS
 :
 : NUMBER OF SEQUENCES: 83
 :
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Swanson & Bratschun, L.L.C.
 : STREET: 8400 E. Prentice Avenue, Suite 200
 : CITY: Englewood
 : STATE: Colorado
 :
 : COUNTRY: USA
 :
 : ZIP: 80111
 :
 : COMPUTER READABLE FORM:

TELEPHONE: (414) 277-5000
TELEFAX: (414) 277-5591
TELEX:
INFORMATION FOR SEQ ID NO: 19
SEQUENCE CHARACTERISTICS:
LENGTH: 29 base pairs
TYPE: nucleotide
STRANDEDNESS: single
TOPOLOGY: linear
US-08-712-241-19

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| Best Local Similarity | 92.9% | Pred. No. 6.4e+02 | | |
| Matches 13, Conservative | | 0; Mismatches 1 | Indels 0 | Gaps 0 |

RESULT 11
 S-08-712-241-18/c
 Sequence 18, Application US/08712241
 Patent No. 578564
 GENERAL INFORMATION:
 APPLICANT: SEIDAH, NABIL G.
 APPLICANT: CHR TIEN, MICHEL
 TITLE OF INVENTION: DEVELOPMENT OF RESEARCH,
 TITLE OF INVENTION: DIAGNOSTIC AND PRODUCTION TOOLS FOR PRO-HORMONE
 CONVERSIONS
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: QUARLES & BRADY
 STREET: 411 EAST WISCONSIN AVENUE
 CITY: MILWAUKEE
 STATE: WISCONSIN
 COUNTRY: U.S.A.
 ZIP: 53202-4497
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 Inch, 720 kb diskette
 COMPUTER: IBM PS/2, Model 30
 OPERATING SYSTEM: PC-DOS 3.30
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/712,241
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/529,785
 FILING DATE: OCTOBER 20, 1992
 APPLICATION NUMBER: US/07/963,535A
 FILING DATE: OCTOBER 20, 1992
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: JEAN C. BAKER
 REGISTRATION NUMBER: 35,433
 REFERENCE/DOCKET NUMBER: 20-702-9001-7
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (414) 277-5000
 TELEFAX: (414) 277-5591
 TELEX:
 INFORMATION FOR SEQ ID NO: 18:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32 base pairs
 TYPE: nucleotide
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-712-241-18

| Matches | 13: Conservative | 0: Mismatches | 1: Indels | 0: Gaps | 0: |
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| Db | 28 | 28 | TAAGGACTCAGCA | 15 | |
| RESULT 12 | | | | | |
| US-08-115-052-2 | | | | | |
| Sequence 2, Application US/08115052 | | | | | |
| Patent No. 5705400 | | | | | |
| GENERAL INFORMATION: | | | | | |
| APPLICANT: Furmanlak-Wehr, Jadwiga Maria | | | | | |
| TITLE OF INVENTION: Assay for Adrenal Autoantigen | | | | | |
| NUMBER OF SEQUENCES: 2 | | | | | |
| CORRESPONDENCE ADDRESS: | | | | | |
| ADDRESSEE: Banner, Birch, McKie & Beckett | | | | | |
| STREET: 1001 G Street N.W. | | | | | |
| CITY: Washington | | | | | |
| STATE: D.C. | | | | | |
| COUNTRY: USA | | | | | |
| ZIP: 20001 | | | | | |
| COMPUTER READABLE FORM: | | | | | |
| MEDIUM TYPE: Floppy disk | | | | | |
| COMPUTER: IBM PC compatible | | | | | |
| OPERATING SYSTEM: PC-DOS/MS-DOS | | | | | |
| SOFTWARE: Patentln Release #1.0, Version #1.25 | | | | | |
| CURRENT APPLICATION DATA: | | | | | |
| APPLICATION NUMBER: US/08/115,052 | | | | | |
| FILING DATE: 02-SEP-1993 | | | | | |
| CLASSIFICATION: 424 | | | | | |
| PRIOR APPLICATION DATA: | | | | | |
| APPLICATION NUMBER: 07/937,409 | | | | | |
| FILING DATE: 31-AUG-1992 | | | | | |
| ATTORNEY/AGENT INFORMATION: | | | | | |
| NAME: Dale H. Hoscheit | | | | | |
| REGISTRATION NUMBER: 19,090 | | | | | |
| REFERENCE/DOCKET NUMBER: 01950.44179 | | | | | |
| TELECOMMUNICATION INFORMATION: | | | | | |
| TELEPHONE: 202-508-9100 | | | | | |
| TELEFAX: 202-5089299 | | | | | |
| TELEX: 197430 BBMB UT | | | | | |
| INFORMATION FOR SEQ ID NO: 2: | | | | | |
| SEQUENCE CHARACTERISTICS: | | | | | |
| LENGTH: 33 base pairs | | | | | |
| TYPE: nucleic acid | | | | | |
| STRANDEDNESS: double | | | | | |
| TOPOLOGY: linear | | | | | |
| MOLECULE TYPE: cDNA | | | | | |
| HYPOTHETICAL: NO | | | | | |
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| NAME/KEY: misc_feature | | | | | |
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| OTHER INFORMATION: /standard_name="Bc0R1 restriction | | | | | |
| OTHER INFORMATION: end" | | | | | |
| FEATURE: | | | | | |
| NAME/KEY: misc_feature | | | | | |
| LOCATION: (7~8) | | | | | |
| OTHER INFORMATION: /standard_name="Sauli cleavage | | | | | |
| OTHER INFORMATION: site" | | | | | |
| FEATURE: | | | | | |
| NAME/KEY: misc_feature | | | | | |
| LOCATION: (16~17) | | | | | |
| OTHER INFORMATION: /standard_name="PmacI cleavage | | | | | |
| OTHER INFORMATION: site" | | | | | |
| FEATURE: | | | | | |
| NAME/KEY: misc_feature | | | | | |
| LOCATION: 31..33 | | | | | |
| OTHER INFORMATION: /standard_name="SphI restriction | | | | | |
| OTHER INFORMATION: end" | | | | | |
| FEATURE: | | | | | |
| NAME/KEY: misc_feature | | | | | |
| LOCATION: 8..10 | | | | | |

OTHER INFORMATION: /standard_name= "Stop codon"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 18..20
OTHER INFORMATION: /standard_name= "Stop codon"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 22..24
OTHER INFORMATION: /standard_name= "Stop codon"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 26..28
OTHER INFORMATION: /standard_name= "Stop codon"
US-08-115-052-2

Query Match 61.0%; Score 12.2; DB 1; Length 33;
Best Local Similarity 82.4%; Pred. No. 8.3e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 4 acgtgaggactcagca 20
||||| ||||| |||||
Db 15 ACCTGAGGACTGAGCA 31

RESULT 13
US-08-723-306-13
Sequence 13, Application US/08723306
Patent No. 5836178
GENERAL INFORMATION:
APPLICANT: White Phd, Kenneth
APPLICANT: Morrey Phd, John
APPLICANT: Reed, William
TITLE OF INVENTION: Cassette for Expression of Lytic
TITLE OF INVENTION: Peptides in Mammalian Transgenic Organisms
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Trask Britt and Rossa
STREET: P.O. Box 2550
CITY: Salt Lake City
STATE: Utah
COUNTRY: USA
ZIP: 84110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/723,306
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Sweigert Phd, Susan E
REGISTRATION NUMBER: 36,289
REFERENCE/DOCKET NUMBER: 2549
TELECOMMUNICATION INFORMATION:
TELEPHONE: 8015321922
TELEFAX: 8015319168
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Upstream primer for Bos
DESCRIPTION: laurus alpha-SI-casein 3' regulatory region including
restriction site linker"
HYPOTHETICAL: YES
US-08-723-306-13

Query Match 61.0%; Score 12.2; DB 2; Length 40;
Best Local Similarity 82.4%; Pred. No. 8.5e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Db 9 ACCTGAGGAGCTCCACA 25

RESULT 14
PCT-US96-10041-13
Sequence 13, Application PC/TUS9610041
GENERAL INFORMATION:
APPLICANT: White Phd, Kenneth
APPLICANT: Morrey Phd, John
APPLICANT: Reed, William
TITLE OF INVENTION: Cassette for Expression of Lytic
TITLE OF INVENTION: Peptides in Mammalian Transgenic Organisms
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Trask Britt and Rossa
STREET: P.O. Box 2550
CITY: Salt Lake City
STATE: Utah
COUNTRY: USA
ZIP: 84110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/10041
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sweigert Phd, Susan E
REGISTRATION NUMBER: 36,289
REFERENCE/DOCKET NUMBER: 2549
TELECOMMUNICATION INFORMATION:
TELEPHONE: 8015321922
TELEFAX: 8015319168
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Upstream primer for Bos
DESCRIPTION: laurus alpha-SI-casein 3' regulatory region including
restriction site linker"
HYPOTHETICAL: YES
PCT-US96-10041-13

Query Match 61.0%; Score 12.2; DB 5; Length 40;
Best Local Similarity 82.4%; Pred. No. 8.5e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Db 9 ACCTGAGGAGCTCCACA 25

RESULT 15
US-08-374-641-1/c
Sequence 1, Application US/08374641
Patent No. 581231
GENERAL INFORMATION:
APPLICANT: Fair, Spencer B.
APPLICANT: Todd, Marque D
TITLE OF INVENTION: METHODS AND DIAGNOSTIC KITS FOR

;; TITLE OF INVENTION: DETERMINING TOXICITY
;;
;; NUMBER OF SEQUENCES: 45
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: James F. Haley, Jr. c/o FISH & NEAVE
;; STREET: 1251 Avenue of the Americas
;; CITY: New York
;; STATE: New York
;; COUNTRY: U.S.A.
;; ZIP: 10020
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
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;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
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;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/374,641
;; FILING DATE: 12-JUL-1995
;;
;; CLASSIFICATION: 435
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Haley Jr., James F.
;; REGISTRATION NUMBER: 27,794
;; REFERENCE/DOCKET NUMBER: X-1 CIP
;;
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 596-9000
;; TELEFAX: (212) 596-9090
;;
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 70 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
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;; US-08-374-641-1

Query Match 61.0%; Score 12.2; DB 1; Length 70;
Best Local Similarity 82.4%; Pred.No.9e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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DB 48 AATGCAGGACTCAGC 32

Search completed: July 19, 2002, 02:44:29
Job time: 5110 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 00:22:59 ; Search time 2468.64 Seconds
(without alignments)
109.347 Million cell updates/sec

Title: US-09-817-538-17
Perfect score: 20
Sequence: 1 gaacgtgaggaactacga 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 674847542 residues
Total number of hits satisfying chosen parameters: 297742

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
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2: em_esthum:*
3: em_estin:*
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5: em_estov:*
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7: em_estro:*
8: em_hic:*
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14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| c 128 | 11.2 | 56.0 | 93 | 12 | AZ428841 | AZ428841 1M0212C08 | c 201 | 11 | 55.0 | 91 | 9 | AM075196 | AM075196 xa69f04.x |
| c 129 | 11.2 | 56.0 | 95 | 9 | AI338090 | AI338090 qtl48a02.x | c 202 | 11 | 55.0 | 91 | 9 | AA419337 | AA419337 zv35f07.r |
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| c 131 | 11.2 | 56.0 | 96 | 12 | AZ621345 | AZ621345 1M0454F05 | c 204 | 11 | 55.0 | 91 | 10 | BF118118 | BF118118 uz12b02.y |
| c 132 | 11.2 | 56.0 | 97 | 9 | AI941268 | AI941268 sb86g04.y | c 205 | 11 | 55.0 | 91 | 12 | AZ918006 | AZ918006 1006002H0 |
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| c 137 | 11.2 | 56.0 | 100 | 10 | BF888168 | BF888168 OV3-TN016 | c 210 | 11 | 55.0 | 95 | 10 | F35524 | F35524 HSPD31854.H |
| c 138 | 11.2 | 56.0 | 100 | 10 | BI502689 | BI502689 949074H01 | c 211 | 11 | 55.0 | 96 | 9 | AA845830 | AA845830 ak85b02.s |
| c 139 | 11.2 | 56.0 | 100 | 10 | BI065512 | BI065512 | c 212 | 11 | 55.0 | 96 | 10 | BG421281 | BG421281 602451777 |
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| c 141 | 11 | 55.0 | 24 | 12 | TA236F01Q | TA236F01Q | c 214 | 11 | 55.0 | 96 | 10 | H55422 | H55422 CHR220361.C |
| c 142 | 11 | 55.0 | 37 | 12 | AZ456195 | AZ456195 | c 215 | 11 | 55.0 | 96 | 10 | WB9735 | WB9735 mf66h07..r1 |
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| c 145 | 11 | 55.0 | 44 | 12 | AZ615424 | AZ615424 | c 218 | 11 | 55.0 | 97 | 10 | BI676983 | BI676983 |
| c 146 | 11 | 55.0 | 49 | 12 | AZ807976 | AZ807976 2M0071N10 | c 219 | 11 | 55.0 | 98 | 9 | AI079107 | AI079107 oy55g08.s |
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| c 148 | 11 | 55.0 | 52 | 10 | NS7145 | NS7145 yw64g02..r1 | c 221 | 11 | 55.0 | 99 | 9 | AI035415 | AI035415 ub46d01.r |
| c 149 | 11 | 55.0 | 52 | 10 | BF632527 | BF632527 NF039E04D | c 222 | 11 | 55.0 | 99 | 12 | BE268948 | BE268948 601184345 |
| c 150 | 11 | 55.0 | 54 | 9 | AA911936 | AA911936 ch88d02.s | c 223 | 11 | 55.0 | 100 | 9 | BE158293 | BE158293 MR2-HT038 |
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| c 152 | 11 | 55.0 | 55 | 9 | AI222537 | AI222537 9923a08.x | c 225 | 11 | 55.0 | 100 | 10 | BG994742 | BG994742 PML-HT100 |
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| c 154 | 11 | 55.0 | 55 | 12 | BG385921 | BG385921 602454472 | c 227 | 11 | 55.0 | 23 | 12 | AZ784767 | AZ784767 2M0027P17 |
| c 155 | 11 | 55.0 | 56 | 12 | AZ776601 | AZ776601 2M0010D19 | c 228 | 11 | 55.0 | 29 | 12 | AZ841479 | AZ841479 2M00139A01 |
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| c 159 | 11 | 55.0 | 61 | 12 | AZ828103 | AZ828103 2M0104I22 | c 232 | 11 | 55.0 | 49 | 9 | AA985054 | AA985054 am69f06.s |
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| c 161 | 11 | 55.0 | 62 | 10 | BF026795 | BF026795 601672091 | c 234 | 11 | 55.0 | 50 | 9 | AU103216 | AU103216 |
| c 162 | 11 | 55.0 | 64 | 12 | AZ336299 | AZ336299 1M0066F04 | c 235 | 11 | 55.0 | 50 | 9 | AU107353 | AU107353 |
| c 163 | 11 | 55.0 | 65 | 10 | BI174723 | BI174723 OSTF05Z05 | c 236 | 11 | 55.0 | 50 | 9 | AU107993 | AU107993 |

| | | | | | | | | | | | | | | |
|-----|------|------|-----|----|-----------|-----------|-----|------|------|----|----|-----------|-----------|-------------|
| 237 | 10.8 | 54.0 | 50 | 9 | AU107994 | AU107994 | 310 | 10.6 | 53.0 | 43 | 12 | A2827095 | A2827095 | 2M0103N16 |
| 238 | 10.8 | 54.0 | 50 | 9 | AU107997 | AU107997 | 311 | 10.6 | 53.0 | 44 | 12 | A2472740 | A2472740 | 1M0288H11 |
| 239 | 10.8 | 54.0 | 52 | 10 | BE316250 | BE316250 | 312 | 10.6 | 53.0 | 46 | 9 | AA446739 | AA446739 | zW89A03.R |
| 240 | 10.8 | 54.0 | 54 | 9 | AA916665 | AA916665 | 313 | 10.6 | 53.0 | 48 | 12 | A2760557 | A2760557 | 1M0554G19 |
| 241 | 10.8 | 54.0 | 54 | 12 | A2782059 | A2782059 | 314 | 10.6 | 53.0 | 49 | 9 | AI933401 | AI933401 | wp67d06.x |
| 242 | 10.8 | 54.0 | 56 | 9 | AI018428 | AI018428 | 315 | 10.6 | 53.0 | 50 | 9 | AU103684 | AU103684 | AU103684 |
| 243 | 10.8 | 54.0 | 56 | 9 | AV533035 | AV533035 | 316 | 10.6 | 53.0 | 50 | 9 | AU103685 | AU103685 | AU103685 |
| 244 | 10.8 | 54.0 | 59 | 9 | AA937016 | AA937016 | 317 | 10.6 | 53.0 | 50 | 9 | AU103686 | AU103686 | AU103686 |
| 245 | 10.8 | 54.0 | 60 | 9 | AA432527 | AA432527 | 318 | 10.6 | 53.0 | 50 | 9 | AU103687 | AU103687 | AU103687 |
| 246 | 10.8 | 54.0 | 61 | 12 | BH217624 | BH217624 | 319 | 10.6 | 53.0 | 50 | 9 | AU103689 | AU103689 | AU103689 |
| 247 | 10.8 | 54.0 | 61 | 12 | BH418504 | BH418504 | 320 | 10.6 | 53.0 | 50 | 9 | AU103690 | AU103690 | AU103690 |
| 248 | 10.8 | 54.0 | 64 | 9 | AM162344 | AM162344 | 321 | 10.6 | 53.0 | 50 | 9 | AU103693 | AU103693 | AU103693 |
| 249 | 10.8 | 54.0 | 64 | 12 | AF219035 | AF219035 | 322 | 10.6 | 53.0 | 50 | 9 | AU105934 | AU105934 | AU105934 |
| 250 | 10.8 | 54.0 | 67 | 12 | TA2F040 | TA2F040 | 323 | 10.6 | 53.0 | 50 | 9 | AU105938 | AU105938 | AU105938 |
| 251 | 10.8 | 54.0 | 67 | 9 | AM696602 | AM696602 | 324 | 10.6 | 53.0 | 50 | 9 | AU105941 | AU105941 | AU105941 |
| 252 | 10.8 | 54.0 | 68 | 9 | AI879748 | AI879748 | 325 | 10.6 | 53.0 | 50 | 9 | AU105945 | AU105945 | AU105945 |
| 253 | 10.8 | 54.0 | 70 | 9 | AA067043 | AA067043 | 326 | 10.6 | 53.0 | 52 | 12 | B33728 | B33728 | HS-1023-A2- |
| 254 | 10.8 | 54.0 | 70 | 9 | AI884214 | AI884214 | 327 | 10.6 | 53.0 | 54 | 9 | AL637463 | AL637463 | AL637463 |
| 255 | 10.8 | 54.0 | 71 | 9 | AI638863 | AI638863 | 328 | 10.6 | 53.0 | 54 | 10 | BE305219 | BE305219 | 601186884 |
| 256 | 10.8 | 54.0 | 73 | 9 | AA826273 | AA826273 | 329 | 10.6 | 53.0 | 55 | 12 | A2485491 | A2485491 | 1M0490A24 |
| 257 | 10.8 | 54.0 | 73 | 9 | AA976408 | AA976408 | 330 | 10.6 | 53.0 | 55 | 12 | A2634507 | A2634507 | 1M0490A24 |
| 258 | 10.8 | 54.0 | 75 | 12 | AA622133 | AA622133 | 331 | 10.6 | 53.0 | 57 | 12 | A2344037 | A2344037 | 1M0077A19 |
| 259 | 10.8 | 54.0 | 75 | 12 | TA1BE02P | TA1BE02P | 332 | 10.6 | 53.0 | 57 | 12 | A2480168 | A2480168 | 1M0301B01 |
| 260 | 10.8 | 54.0 | 76 | 9 | AI761448 | AI761448 | 333 | 10.6 | 53.0 | 58 | 9 | AA394123 | AA394123 | z552908.s |
| 261 | 10.8 | 54.0 | 76 | 9 | AA557443 | AA557443 | 334 | 10.6 | 53.0 | 58 | 12 | A2339891 | A2339891 | 1M0071M01 |
| 262 | 10.8 | 54.0 | 78 | 12 | A2630278 | A2630278 | 335 | 10.6 | 53.0 | 60 | 9 | AA766673 | AA766673 | 0834B03.s |
| 263 | 10.8 | 54.0 | 79 | 9 | AA569941 | AA569941 | 336 | 10.6 | 53.0 | 63 | 12 | A2377094 | A2377094 | 1M0131G13 |
| 264 | 10.8 | 54.0 | 81 | 12 | BH634787 | BH634787 | 337 | 10.6 | 53.0 | 64 | 9 | AA544913 | AA544913 | VX42C06.T |
| 265 | 10.8 | 54.0 | 82 | 9 | AI223284 | AI223284 | 338 | 10.6 | 53.0 | 64 | 10 | R89512 | R89512 | ym96d10.r1 |
| 266 | 10.8 | 54.0 | 82 | 9 | AA094878 | AA094878 | 339 | 10.6 | 53.0 | 64 | 12 | A2341693 | A2341693 | 1M0074B16 |
| 267 | 10.8 | 54.0 | 86 | 9 | AA791481 | AA791481 | 340 | 10.6 | 53.0 | 67 | 9 | AA210479 | AA210479 | mu30B03.r |
| 268 | 10.8 | 54.0 | 86 | 9 | AA910464 | AA910464 | 341 | 10.6 | 53.0 | 67 | 10 | R75673 | R75673 | y121B05.r1 |
| 269 | 10.8 | 54.0 | 86 | 9 | AI098383 | AI098383 | 342 | 10.6 | 53.0 | 69 | 10 | TA9670 | TA9670 | ya78d04.s1 |
| 270 | 10.8 | 54.0 | 87 | 9 | AA689912 | AA689912 | 343 | 10.6 | 53.0 | 70 | 9 | AA791094 | AA791094 | vwl6g12.r |
| 271 | 10.8 | 54.0 | 87 | 10 | HS0904 | HS0904 | 344 | 10.6 | 53.0 | 70 | 10 | C00509 | C00509 | H0MGS00803 |
| 272 | 10.8 | 54.0 | 87 | 12 | TA2H03P | TA2H03P | 345 | 10.6 | 53.0 | 71 | 12 | A2312411 | A2312411 | 1M0028C17 |
| 273 | 10.8 | 54.0 | 88 | 9 | AA693689 | AA693689 | 346 | 10.6 | 53.0 | 71 | 12 | A2323688 | A2323688 | 1M0045F14 |
| 274 | 10.8 | 54.0 | 88 | 9 | AA707210 | AA707210 | 347 | 10.6 | 53.0 | 71 | 12 | BH217655 | BH217655 | 1006057D1 |
| 275 | 10.8 | 54.0 | 88 | 10 | R86649 | R86649 | 348 | 10.6 | 53.0 | 72 | 12 | A2346768 | A2346768 | 1M0082H10 |
| 276 | 10.8 | 54.0 | 90 | 9 | AA289580 | AA289580 | 349 | 10.6 | 53.0 | 73 | 9 | AA208749 | AA208749 | mu170a02.T |
| 277 | 10.8 | 54.0 | 93 | 12 | A2770818 | A2770818 | 350 | 10.6 | 53.0 | 73 | 10 | BG551581 | BG551581 | sad40B03. |
| 278 | 10.8 | 54.0 | 94 | 10 | HS5243 | HS5243 | 351 | 10.6 | 53.0 | 73 | 12 | A2996230 | A2996230 | 2M0287E19 |
| 279 | 10.8 | 54.0 | 96 | 9 | AA990056 | AA990056 | 352 | 10.6 | 53.0 | 75 | 9 | AA906476 | AA906476 | 0199E03.s |
| 280 | 10.8 | 54.0 | 96 | 9 | AA156680 | AA156680 | 353 | 10.6 | 53.0 | 77 | 12 | A2759536 | A2759536 | 1M0552010 |
| 281 | 10.8 | 54.0 | 96 | 12 | A2481113 | A2481113 | 354 | 10.6 | 53.0 | 78 | 12 | TA161G07P | TA161G07P | brucei |
| 282 | 10.8 | 54.0 | 97 | 9 | AA811053 | AA811053 | 355 | 10.6 | 53.0 | 81 | 9 | AA266980 | AA266980 | mu291M08.T |
| 283 | 10.8 | 54.0 | 97 | 9 | AA993429 | AA993429 | 356 | 10.6 | 53.0 | 81 | 10 | C21181 | C21181 | H0MGS00219 |
| 284 | 10.8 | 54.0 | 97 | 9 | AI004258 | AI004258 | 357 | 10.6 | 53.0 | 81 | 12 | A2784672 | A2784672 | 2M0027E19 |
| 285 | 10.8 | 54.0 | 97 | 9 | AI048705 | AI048705 | 358 | 10.6 | 53.0 | 82 | 9 | AA914461 | AA914461 | v201f07.r |
| 286 | 10.8 | 54.0 | 97 | 9 | AI118788 | AI118788 | 359 | 10.6 | 53.0 | 82 | 12 | CNS039RS | CNS039RS | Tetrarodon |
| 287 | 10.8 | 54.0 | 97 | 9 | AI331166 | AI331166 | 360 | 10.6 | 53.0 | 83 | 9 | AI317330 | AI317330 | uJ16b11.y |
| 288 | 10.8 | 54.0 | 97 | 9 | AI436286 | AI436286 | 361 | 10.6 | 53.0 | 85 | 12 | A2448723 | A2448723 | 1M0246003 |
| 289 | 10.8 | 54.0 | 97 | 9 | AI674658 | AI674658 | 362 | 10.6 | 53.0 | 87 | 9 | AA238868 | AA238868 | my34H03.T |
| 290 | 10.8 | 54.0 | 97 | 9 | AI689927 | AI689927 | 363 | 10.6 | 53.0 | 87 | 10 | W81345 | W81345 | z487c05.r1 |
| 291 | 10.8 | 54.0 | 97 | 9 | AI769907 | AI769907 | 364 | 10.6 | 53.0 | 87 | 12 | A2789989 | A2789989 | 2M0038D11 |
| 292 | 10.8 | 54.0 | 97 | 9 | AA255318 | AA255318 | 365 | 10.6 | 53.0 | 88 | 9 | AA885680 | AA885680 | 0134C09.s |
| 293 | 10.8 | 54.0 | 97 | 9 | AA621128 | AA621128 | 366 | 10.6 | 53.0 | 88 | 9 | AA885680 | AA885680 | 0134C09.s |
| 294 | 10.8 | 54.0 | 97 | 10 | BI647485 | BI647485 | 367 | 10.6 | 53.0 | 88 | 9 | AA962720 | AA962720 | 0089A03.S |
| 295 | 10.8 | 54.0 | 99 | 9 | AI376470 | AI376470 | 368 | 10.6 | 53.0 | 88 | 9 | AA231918 | AA231918 | COO460.R |
| 296 | 10.8 | 54.0 | 99 | 9 | AA129539 | AA129539 | 369 | 10.6 | 53.0 | 88 | 9 | AA434767 | AA434767 | v263a02.r |
| 297 | 10.8 | 54.0 | 99 | 9 | AI610415 | AI610415 | 370 | 10.6 | 53.0 | 88 | 9 | AA574321 | AA574321 | n454F03.s |
| 298 | 10.8 | 54.0 | 100 | 9 | AA872714 | AA872714 | 371 | 10.6 | 53.0 | 88 | 12 | BH411460 | BH411460 | 100702C60 |
| 299 | 10.8 | 54.0 | 100 | 9 | AI247784 | AI247784 | 372 | 10.6 | 53.0 | 89 | 9 | AA432932 | AA432932 | s101a06.y |
| 300 | 10.8 | 54.0 | 100 | 9 | AA087341 | AA087341 | 373 | 10.6 | 53.0 | 89 | 10 | BH189672 | BH189672 | T9ESTZYD4 |
| 301 | 10.8 | 54.0 | 100 | 10 | BF748244 | BF748244 | 374 | 10.6 | 53.0 | 89 | 10 | N88844 | N88844 | K5823F.Huma |
| 302 | 10.8 | 54.0 | 100 | 10 | BE400130 | BE400130 | 375 | 10.6 | 53.0 | 90 | 9 | AA286563 | AA286563 | VB84E07.r |
| 303 | 10.8 | 54.0 | 100 | 12 | AQ0889560 | AQ0889560 | 376 | 10.6 | 53.0 | 91 | 9 | AA432217 | AA432217 | zv75F08.T |
| 304 | 10.6 | 53.0 | 20 | 12 | A2651800 | A2651800 | 377 | 10.6 | 53.0 | 92 | 10 | BI156738 | BI156738 | 602922159 |
| 305 | 10.6 | 53.0 | 29 | 12 | A2476026 | A2476026 | 378 | 10.6 | 53.0 | 92 | 10 | R62490 | R62490 | yj57f12.r1 |
| 306 | 10.6 | 53.0 | 31 | 10 | C20894 | C20894 | 379 | 10.6 | 53.0 | 92 | 10 | BF149787 | BF149787 | uy7BD01.Y |
| 307 | 10.6 | 53.0 | 34 | 9 | AA509644 | AA509644 | 380 | 10.6 | 53.0 | 94 | 9 | AI529589 | AI529589 | u182d12.x |
| 308 | 10.6 | 53.0 | 37 | 12 | A2832517 | A2832517 | 381 | 10.6 | 53.0 | 95 | 9 | AV934722 | AV934722 | AV934722 |
| 309 | 10.6 | 53.0 | 42 | 12 | A2627048 | A2627048 | 382 | 10.6 | 53.0 | 95 | 12 | BH228314 | BH228314 | 1006145F0 |

| | | | | | | | | | | | | | |
|-------|------|------|-----|----|-----------|---------------------|-----|------|------|----|----|------------|---------------------|
| 383 | 10.6 | 53.0 | 95 | 12 | BH627143 | BH627143 1007069A0 | 456 | 10.4 | 52.0 | 68 | 12 | BH225368 | BH225368 1006125H0 |
| C 384 | 10.6 | 53.0 | 95 | 12 | CNS02DG9 | AI1924402 Tetracdon | 457 | 10.4 | 52.0 | 69 | 9 | AA856147 | AA856147 v63ell.r |
| C 385 | 10.6 | 53.0 | 96 | 9 | AI209735 | AI209735 c7907a1.f | 458 | 10.4 | 52.0 | 69 | 9 | AA850612 | AA850612 AV950612 |
| C 386 | 10.6 | 53.0 | 96 | 9 | AA398502 | AA398502 zt4a05.s | 459 | 10.4 | 52.0 | 69 | 12 | A2306127 | A2306127 1M0007L06 |
| C 387 | 10.6 | 53.0 | 96 | 10 | BG915648 | BG915648 602814123 | 460 | 10.4 | 52.0 | 70 | 9 | AA975630 | AA975630 o663b08.s |
| C 388 | 10.6 | 53.0 | 96 | 12 | BH417370 | BH417370 1007054F1 | 461 | 10.4 | 52.0 | 70 | 9 | AI961938 | AI961938 w422b05.x |
| C 389 | 10.6 | 53.0 | 97 | 9 | AA199007 | AA199007 mv39f06.r | 462 | 10.4 | 52.0 | 70 | 9 | AA220747 | AA220747 mv66a11.r |
| C 390 | 10.6 | 53.0 | 97 | 9 | AA594375 | AA594375 n197d06.s | 463 | 10.4 | 52.0 | 70 | 9 | AA575240 | AA575240 vhl9c03.r |
| C 391 | 10.6 | 53.0 | 97 | 10 | BI147738 | BI147738 6029128I0 | 464 | 10.4 | 52.0 | 70 | 10 | BG157499 | BG157499 sab37610 |
| C 392 | 10.6 | 53.0 | 97 | 12 | AZ637541 | AZ637541 1M0497B02 | 465 | 10.4 | 52.0 | 72 | 10 | BE396936 | BE396936 601290636 |
| C 393 | 10.6 | 53.0 | 98 | 9 | AA028558 | AA028558 m18g07.r | 466 | 10.4 | 52.0 | 73 | 9 | AI153737 | AI153737 u448d09.r |
| C 394 | 10.6 | 53.0 | 98 | 9 | AA796494 | AA796494 v750g03.s | 467 | 10.4 | 52.0 | 73 | 9 | AI355691 | AI355691 gx21a07.x |
| C 395 | 10.6 | 53.0 | 98 | 9 | AL630197 | AL630197 AL630197 | 468 | 10.4 | 52.0 | 73 | 9 | AA976751 | AA976751 SW1D2SCAU |
| C 396 | 10.6 | 53.0 | 98 | 12 | AZ476816 | AZ476816 1M0295024 | 469 | 10.4 | 52.0 | 73 | 9 | AA6000116 | AA6000116 SWLCAK10 |
| C 397 | 10.6 | 53.0 | 98 | 12 | AZ621439 | AZ621439 1M0454H07 | 470 | 10.4 | 52.0 | 73 | 9 | AA651817 | AA651817 SWYD2SCAU |
| C 398 | 10.6 | 53.0 | 98 | 12 | AZ780265 | AZ780265 2M00170I9 | 471 | 10.4 | 52.0 | 73 | 9 | AA663318 | AA663318 bh77d01.y |
| C 399 | 10.6 | 53.0 | 98 | 12 | BH224385 | BH224385 1006118F1 | 472 | 10.4 | 52.0 | 73 | 9 | AA674933 | AA674933 SWYACAL04 |
| C 400 | 10.6 | 53.0 | 99 | 9 | AA927468 | AA927468 AV927468 | 473 | 10.4 | 52.0 | 73 | 9 | AA466141 | AA466141 vg72h01.r |
| C 401 | 10.6 | 53.0 | 99 | 10 | BE857844 | BE857844 7d59g03.x | 474 | 10.4 | 52.0 | 73 | 9 | AA499945 | AA499945 v136d08.r |
| C 402 | 10.6 | 53.0 | 100 | 9 | AA902608 | AA902608 c760e06.s | 475 | 10.4 | 52.0 | 73 | 12 | TA119F11P | TA119F11P |
| C 403 | 10.6 | 53.0 | 100 | 9 | AI906705 | AI906705 QV-BT123- | 476 | 10.4 | 52.0 | 74 | 9 | AI431937 | AI431937 t126h12.x |
| C 404 | 10.6 | 53.0 | 100 | 10 | BF814723 | BF814723 ILS-CI014 | 477 | 10.4 | 52.0 | 74 | 12 | AZ492860 | AZ492860 1M0327P08 |
| C 405 | 10.6 | 53.0 | 100 | 10 | BE857873 | BE857873 7d64b07.x | 478 | 10.4 | 52.0 | 74 | 12 | BH417114 | BH417114 1007052E1 |
| C 406 | 10.4 | 52.0 | 25 | 9 | AI911332 | AI911332 wd14h07.x | 479 | 10.4 | 52.0 | 75 | 12 | AZ847788 | AZ847788 2M0148E05 |
| C 407 | 10.4 | 52.0 | 38 | 12 | TA117B04P | AI464666 T. brucei | 480 | 10.4 | 52.0 | 75 | 12 | CNS03YFO | AL266253 Tetracdon |
| C 408 | 10.4 | 52.0 | 39 | 12 | AZ361105 | AZ361105 1M0104H10 | 481 | 10.4 | 52.0 | 76 | 12 | AG024930 | AG024930 Oryza sat |
| C 409 | 10.4 | 52.0 | 39 | 12 | AZ366232 | AZ366232 1M0115E13 | 482 | 10.4 | 52.0 | 77 | 12 | AZ774024 | AZ774024 2M0003A04 |
| C 410 | 10.4 | 52.0 | 40 | 12 | AZ952125 | AZ952125 2M0216P16 | 483 | 10.4 | 52.0 | 77 | 12 | BH228402 | BH228402 1006146E1 |
| C 411 | 10.4 | 52.0 | 43 | 9 | AA247576 | AA247576 2819553.s | 484 | 10.4 | 52.0 | 77 | 12 | TA758080 | AI452215 T. brucei |
| C 412 | 10.4 | 52.0 | 45 | 12 | AZ599531 | AZ599531 1M0414M23 | 485 | 10.4 | 52.0 | 78 | 9 | AA782202 | AA782202 a147h02.s |
| C 413 | 10.4 | 52.0 | 46 | 12 | AZ810685 | AZ810685 2M0076G24 | 486 | 10.4 | 52.0 | 78 | 9 | AA119688 | AA119688 mp87e02.r |
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| C 415 | 10.4 | 52.0 | 48 | 12 | AZ765963 | AZ765963 1M0563M12 | 488 | 10.4 | 52.0 | 78 | 12 | AZ800557 | AZ800557 2M0058F11 |
| C 416 | 10.4 | 52.0 | 49 | 9 | AA846570 | AA846570 a197c02.s | 489 | 10.4 | 52.0 | 79 | 9 | AA642623 | AA642623 nq71f12.s |
| C 417 | 10.4 | 52.0 | 49 | 10 | N51399 | N51399 yz16h06.s1 | 490 | 10.4 | 52.0 | 79 | 9 | AA792047 | AA792047 v659a10.r |
| C 418 | 10.4 | 52.0 | 50 | 9 | AA102585 | AA102585 AA102585 | 491 | 10.4 | 52.0 | 79 | 9 | AA821800 | AA821800 vp72b04.r |
| C 419 | 10.4 | 52.0 | 50 | 9 | AA102669 | AA102669 AA102669 | 492 | 10.4 | 52.0 | 79 | 9 | AA578776 | AA578776 nh24a08.s |
| C 420 | 10.4 | 52.0 | 50 | 9 | AA105931 | AA105931 AA105931 | 493 | 10.4 | 52.0 | 79 | 10 | BF640249 | BF640249 NF026D10T |
| C 421 | 10.4 | 52.0 | 50 | 9 | AA105932 | AA105932 AA105932 | 494 | 10.4 | 52.0 | 80 | 9 | AA897329 | AA897329 a147e10.s |
| C 422 | 10.4 | 52.0 | 50 | 9 | AA105939 | AA105939 AA105939 | 495 | 10.4 | 52.0 | 80 | 12 | BH218794 | BH218794 1006082C0 |
| C 423 | 10.4 | 52.0 | 50 | 9 | AA107098 | AA107098 AA107098 | 496 | 10.4 | 52.0 | 81 | 9 | AI902469 | AI902469 CM-BT006- |
| C 424 | 10.4 | 52.0 | 50 | 9 | AA107913 | AA107913 AA107913 | 497 | 10.4 | 52.0 | 81 | 9 | AA189692 | AA189692 xk93d08.x |
| C 425 | 10.4 | 52.0 | 50 | 12 | AA026189 | AA026189 1(3)03806 | 498 | 10.4 | 52.0 | 82 | 9 | AA221740 | AA221740 mv51a07.r |
| C 426 | 10.4 | 52.0 | 50 | 12 | AZ659610 | AZ659610 1M0537P02 | 499 | 10.4 | 52.0 | 83 | 10 | H55404 | H55404 CHR220343.C |
| C 427 | 10.4 | 52.0 | 51 | 12 | AZ329549 | AZ329549 1M0053A20 | 500 | 10.4 | 52.0 | 83 | 12 | AZ777224 | AZ777224 2M0011D02 |
| C 428 | 10.4 | 52.0 | 51 | 12 | AZ987322 | AZ987322 2M0269B19 | 501 | 10.4 | 52.0 | 83 | 12 | BH622760 | BH622760 1007098C1 |
| C 429 | 10.4 | 52.0 | 51 | 12 | BH217211 | BH217211 1006053A1 | 502 | 10.4 | 52.0 | 84 | 12 | AZ806569 | AZ806569 2M0068010 |
| C 430 | 10.4 | 52.0 | 55 | 12 | AZ755909 | AZ755909 ev10h02.x | 503 | 10.4 | 52.0 | 84 | 12 | TA1326F1OP | AI465847 T. brucei |
| C 431 | 10.4 | 52.0 | 56 | 10 | BC913612 | BC913612 602814442 | 504 | 10.4 | 52.0 | 85 | 9 | AI021495 | AI021495 ub12e04.r |
| C 432 | 10.4 | 52.0 | 56 | 12 | AZ459344 | AZ459344 1M0264A11 | 505 | 10.4 | 52.0 | 85 | 9 | AZ396538 | AZ396538 AJ396538 |
| C 433 | 10.4 | 52.0 | 57 | 9 | AA288232 | AA288232 SMOV3MCAM | 506 | 10.4 | 52.0 | 85 | 12 | AZ855489 | AZ855489 2M0159L04 |
| C 434 | 10.4 | 52.0 | 57 | 12 | B35690 | B35690 HS-1029-B1- | 507 | 10.4 | 52.0 | 86 | 9 | AI194485 | AI194485 ue74e11.r |
| C 435 | 10.4 | 52.0 | 58 | 12 | CNS02DON | AL191840 Tetracdon | 508 | 10.4 | 52.0 | 86 | 10 | BG152103 | BG152103 nag71e07. |
| C 436 | 10.4 | 52.0 | 60 | 12 | CNS03C5T | AI237386 Tetracdon | 509 | 10.4 | 52.0 | 86 | 12 | AZ047982 | AZ047982 LMAJFV1.1 |
| C 437 | 10.4 | 52.0 | 61 | 9 | AA054990 | AA054990 zfl8d05.s | 510 | 10.4 | 52.0 | 87 | 10 | N84607 | N84607 J0263F. HumA |
| C 438 | 10.4 | 52.0 | 61 | 9 | AA401354 | AA401354 zu8e04.s | 511 | 10.4 | 52.0 | 87 | 10 | R29352 | R29352 F1-473D.22 |
| C 439 | 10.4 | 52.0 | 61 | 10 | R25903 | R25903 y956a01.r1 | 512 | 10.4 | 52.0 | 87 | 12 | BH221642 | BH221642 1006102D1 |
| C 440 | 10.4 | 52.0 | 61 | 10 | AZ770853 | AZ770853 1M0572F12 | 513 | 10.4 | 52.0 | 88 | 9 | AA116094 | AA116094 uc16b01.r |
| C 441 | 10.4 | 52.0 | 62 | 10 | BM011662 | BM011662 603636006 | 514 | 10.4 | 52.0 | 88 | 9 | AA252251 | AA252251 zc79a11.s |
| C 442 | 10.4 | 52.0 | 64 | 9 | AA874904 | AA874904 SWYACAL04 | 515 | 10.4 | 52.0 | 88 | 9 | AA468905 | AA468905 hd30c01.x |
| C 443 | 10.4 | 52.0 | 64 | 9 | AA874934 | AA874934 SWYACAL04 | 516 | 10.4 | 52.0 | 88 | 9 | AA561126 | AA561126 v141c06.r |
| C 444 | 10.4 | 52.0 | 64 | 12 | BE636264 | BE636264 SMOVAMC04 | 517 | 10.4 | 52.0 | 88 | 12 | AZ313868 | AZ313868 1M0030FE24 |
| C 445 | 10.4 | 52.0 | 64 | 12 | AZ405284 | AZ405284 1M0174J06 | 518 | 10.4 | 52.0 | 88 | 12 | AZ2790343 | AZ2790343 2M0038L17 |
| C 446 | 10.4 | 52.0 | 64 | 12 | AZ582149 | AZ582149 1M0374B19 | 519 | 10.4 | 52.0 | 89 | 10 | BG740378 | BG740378 602634147 |
| C 447 | 10.4 | 52.0 | 64 | 12 | CNS04O7N | AI299660 Tetracdon | 520 | 10.4 | 52.0 | 89 | 10 | H55671 | H55671 CHR220610.C |
| C 448 | 10.4 | 52.0 | 65 | 12 | AZ922880 | AZ922880 SIC0t6C05 | 521 | 10.4 | 52.0 | 89 | 12 | CNS011UC | AI173073 Tetracdon |
| C 449 | 10.4 | 52.0 | 66 | 10 | BF634043 | BF634043 NF074H09D | 522 | 10.4 | 52.0 | 90 | 9 | AA645121 | AA645121 vs72d05.r |
| C 450 | 10.4 | 52.0 | 66 | 12 | AZ796836 | AZ796836 2M0052D13 | 523 | 10.4 | 52.0 | 90 | 9 | AJ392123 | AJ392123 AJ392123 |
| C 451 | 10.4 | 52.0 | 67 | 9 | AA636773 | AA636773 v716b08.r | 524 | 10.4 | 52.0 | 91 | 9 | AI903037 | AI903037 QV-BT022- |
| C 452 | 10.4 | 52.0 | 67 | 9 | AAV833909 | AAV833909 AV833909 | 525 | 10.4 | 52.0 | 91 | 9 | AAV83340 | AAV83340 AV83340 |
| C 453 | 10.4 | 52.0 | 67 | 10 | BG108742 | BG108742 HRPE0708 | 526 | 10.4 | 52.0 | 91 | 12 | AF110656 | AF110656 AF110656 |
| C 454 | 10.4 | 52.0 | 67 | 12 | B33946 | B33946 HS-1023-B1- | 527 | 10.4 | 52.0 | 91 | 12 | AA2812024 | AA2812024 2M007BL23 |
| C 455 | 10.4 | 52.0 | 68 | 9 | AA449246 | AA449246 zx04c09.s | 528 | 10.4 | 52.0 | 91 | 12 | | |

| | | | | | | | | | | | | | |
|-----|------|------|-----|----|-----------|--------------------|-----|------|------|----|----|-----------|---------------------|
| 529 | 10.4 | 52.0 | 92 | 9 | AI521704 | AI521704 t81h01.x | 602 | 10.2 | 51.0 | 57 | 9 | AI061382 | AI061382 ac036b04.s |
| 530 | 10.4 | 52.0 | 92 | 9 | AJ395297 | AJ395297 AJ395297 | 603 | 10.2 | 51.0 | 58 | 12 | AZ357215 | AZ357215 IM0098E10 |
| 531 | 10.4 | 52.0 | 92 | 10 | N85320 | N85320 j3199F Huma | 604 | 10.2 | 51.0 | 59 | 12 | TA280A06 | TA280A06 T. bruce1 |
| 532 | 10.4 | 52.0 | 93 | 9 | AI855850 | AI855850 sc30b12.y | 605 | 10.2 | 51.0 | 60 | 9 | AI90C595 | AI90C595 RC-BT119 |
| 533 | 10.4 | 52.0 | 93 | 12 | AZ767056 | AZ767056 IM0566E03 | 606 | 10.2 | 51.0 | 60 | 10 | BE317259 | BE317259 NF058A01L |
| 534 | 10.4 | 52.0 | 93 | 12 | CNS024X1 | AL161359 Telraodon | 607 | 10.2 | 51.0 | 60 | 12 | B40547 | B40547 HS-1051-B2 |
| 535 | 10.4 | 52.0 | 93 | 12 | TA555H11Q | AL497089 T. bruce1 | 608 | 10.2 | 51.0 | 61 | 12 | B00899 | B00899 cSRc-121e6 |
| 536 | 10.4 | 52.0 | 94 | 10 | AI052440 | AI052440 oz07f07.x | 609 | 10.2 | 51.0 | 62 | 9 | AA026251 | AA026251 z39b03.s |
| 537 | 10.4 | 52.0 | 94 | 10 | W00100 | W00100 T9ESTZY75h0 | 610 | 10.2 | 51.0 | 62 | 9 | AA652874 | AA652874 ns75f03.s |
| 538 | 10.4 | 52.0 | 95 | 9 | AA138218 | AA138218 mE76907.r | 611 | 10.2 | 51.0 | 62 | 9 | AI255316 | AI255316 aq33e04.x |
| 539 | 10.4 | 52.0 | 95 | 9 | AA621913 | AA621913 nq30b11.s | 612 | 10.2 | 51.0 | 63 | 9 | AA903398 | AA903398 ok62c01.s |
| 540 | 10.4 | 52.0 | 95 | 12 | AZ785449 | AZ785449 ZM0029P16 | 613 | 10.2 | 51.0 | 63 | 9 | AA554559 | AA554559 n114t04.s |
| 541 | 10.4 | 52.0 | 95 | 12 | TA9C09P | AL451917 T. bruce1 | 614 | 10.2 | 51.0 | 64 | 9 | AA074354 | AA074354 zf82e01.s |
| 542 | 10.4 | 52.0 | 96 | 9 | AA052190 | AA052190 mF65f02.r | 615 | 10.2 | 51.0 | 64 | 9 | AA576602 | AA576602 nm66h10.s |
| 543 | 10.4 | 52.0 | 96 | 9 | AI326175 | AI326175 ms33h11.x | 616 | 10.2 | 51.0 | 66 | 12 | AA5603345 | AA5603345 IM0422G14 |
| 544 | 10.4 | 52.0 | 96 | 9 | AA627232 | AA627232 nq63d04.s | 617 | 10.2 | 51.0 | 67 | 9 | AI866899 | AI866899 wE74h06.x |
| 545 | 10.4 | 52.0 | 96 | 10 | BJ001073 | BJ001073 BJ001073 | 618 | 10.2 | 51.0 | 67 | 10 | H28370 | H28370 y152g04.sl |
| 546 | 10.4 | 52.0 | 96 | 12 | BH629177 | BH629177 1007077E0 | 619 | 10.2 | 51.0 | 67 | 12 | TA300E05P | TA300E05P T. bruce1 |
| 547 | 10.4 | 52.0 | 96 | 12 | HS404487 | AJ304487 Homo sapi | 620 | 10.2 | 51.0 | 68 | 9 | AA510702 | AA510702 vH60b01.r |
| 548 | 10.4 | 52.0 | 97 | 9 | AI358052 | AI358052 qv18e04.x | 621 | 10.2 | 51.0 | 68 | 9 | AA534601 | AA534601 nF81c05.s |
| 549 | 10.4 | 52.0 | 97 | 9 | AI960044 | AI960044 sc37d03.x | 622 | 10.2 | 51.0 | 70 | 9 | AA107172 | AA107172 m157d12.r |
| 550 | 10.4 | 52.0 | 97 | 12 | AZ466822 | AZ466822 IM0277J18 | 623 | 10.2 | 51.0 | 70 | 9 | AA440062 | AA440062 AV440062 |
| 551 | 10.4 | 52.0 | 97 | 12 | CNS03AFA | AL235135 Telraodon | 624 | 10.2 | 51.0 | 71 | 9 | AA575416 | AA575416 v187d09.r |
| 552 | 10.4 | 52.0 | 98 | 9 | AI423665 | AI423665 tF85b07.x | 625 | 10.2 | 51.0 | 71 | 10 | BI962819 | BI962819 lE59a05.y |
| 553 | 10.4 | 52.0 | 98 | 10 | BI917796 | BI917796 603183896 | 626 | 10.2 | 51.0 | 71 | 10 | BM320763 | BM320763 rS93g04.y |
| 554 | 10.4 | 52.0 | 98 | 12 | AZ490819 | AZ490819 IM0324H06 | 627 | 10.2 | 51.0 | 71 | 12 | BH412152 | BH412152 1007025D0 |
| 555 | 10.4 | 52.0 | 98 | 12 | BH226614 | BH226614 1006133D0 | 628 | 10.2 | 51.0 | 72 | 10 | BM430464 | BM430464 IDU034G10 |
| 556 | 10.4 | 52.0 | 99 | 10 | BI048368 | BI048368 M44-SN034 | 629 | 10.2 | 51.0 | 72 | 12 | AZ797940 | AZ797940 ZM0054A04 |
| 557 | 10.4 | 52.0 | 99 | 10 | BE384019 | BE384019 601272806 | 630 | 10.2 | 51.0 | 72 | 12 | AZ923391 | AZ923391 4508.yf20 |
| 558 | 10.4 | 52.0 | 100 | 9 | AI184371 | AI184371 q6C4C09.x | 631 | 10.2 | 51.0 | 72 | 12 | BH128246 | BH128246 G-2021.r |
| 559 | 10.4 | 52.0 | 100 | 9 | AA109767 | AA109767 mp34d10.r | 632 | 10.2 | 51.0 | 73 | 9 | AA932294 | AA932294 oc63d01.s |
| 560 | 10.4 | 52.0 | 100 | 9 | AV911607 | AV911607 AV911607 | 633 | 10.2 | 51.0 | 73 | 9 | AA977883 | AA977883 oc65d09.s |
| 561 | 10.4 | 52.0 | 100 | 9 | AM749751 | AM749751 PM4-BR051 | 634 | 10.2 | 51.0 | 73 | 9 | AI122222 | AI122222 uc60a11.r |
| 562 | 10.4 | 52.0 | 100 | 9 | AM749753 | AM749753 PM4-BR051 | 635 | 10.2 | 51.0 | 73 | 10 | BM360606 | BM360606 5009-0-16 |
| 563 | 10.4 | 52.0 | 100 | 9 | AM763326 | AM763326 PM2-UM002 | 636 | 10.2 | 51.0 | 73 | 10 | BF228822 | BF228822 SMOVL3CAN |
| 564 | 10.4 | 52.0 | 100 | 9 | AM997167 | AM997167 RC1-BN004 | 637 | 10.2 | 51.0 | 74 | 10 | BG404251 | BG404251 602465525 |
| 565 | 10.4 | 52.0 | 100 | 9 | BE077278 | BE077278 RC1-BR060 | 638 | 10.2 | 51.0 | 74 | 12 | AZ833441 | AZ833441 ZM0115H01 |
| 566 | 10.4 | 52.0 | 100 | 9 | AA609637 | AA609637 aF16a01.s | 639 | 10.2 | 51.0 | 75 | 10 | H55183 | H55183 CHR220122 C |
| 567 | 10.4 | 52.0 | 100 | 10 | BE762761 | BE762761 QV3-NM002 | 640 | 10.2 | 51.0 | 76 | 9 | AA761458 | AA761458 n26f07.s |
| 568 | 10.4 | 52.0 | 100 | 12 | AZ610192 | AZ610192 IM0435B21 | 641 | 10.2 | 51.0 | 76 | 9 | AA890677 | AA890677 aj93f06.s |
| 569 | 10.4 | 52.0 | 100 | 12 | AZ916464 | AZ916464 Pct1_6-d1 | 642 | 10.2 | 51.0 | 76 | 12 | AZ595073 | AZ595073 1M0407P20 |
| 570 | 10.4 | 52.0 | 100 | 12 | CNS045EX | AL275238 Telraodon | 643 | 10.2 | 51.0 | 77 | 9 | AA447772 | AA447772 aa20e06.s |
| 571 | 10.2 | 51.0 | 25 | 10 | BM400178 | BM400178 5009-0-68 | 644 | 10.2 | 51.0 | 77 | 12 | AZ445093 | AZ445093 1M0240J08 |
| 572 | 10.2 | 51.0 | 25 | 12 | TA234H10Q | AL461273 T. bruce1 | 645 | 10.2 | 51.0 | 77 | 12 | AZ513245 | AZ513245 IM0259G17 |
| 573 | 10.2 | 51.0 | 26 | 12 | AZ948804 | AZ948804 ZM0212D01 | 646 | 10.2 | 51.0 | 78 | 10 | BG082999 | BG082999 H3083D01 |
| 574 | 10.2 | 51.0 | 28 | 12 | AZ645227 | AZ645227 IM0510J05 | 647 | 10.2 | 51.0 | 78 | 10 | BM027204 | BM027204 CTY000051 |
| 575 | 10.2 | 51.0 | 31 | 9 | AI472692 | AI472692 tA44d12.x | 648 | 10.2 | 51.0 | 78 | 10 | BF214280 | BF214280 601848479 |
| 576 | 10.2 | 51.0 | 31 | 12 | AZ435270 | AZ435270 IM0222I08 | 649 | 10.2 | 51.0 | 78 | 12 | AZ785494 | AZ785494 ZM0029I19 |
| 577 | 10.2 | 51.0 | 31 | 12 | AZ439064 | AZ439064 IM0229D06 | 650 | 10.2 | 51.0 | 78 | 12 | CNS02573 | AL182136 Telraodon |
| 578 | 10.2 | 51.0 | 34 | 9 | AI611445 | AI611445 tF61c02.x | 651 | 10.2 | 51.0 | 79 | 9 | AI953266 | AI953266 wQ02f06.x |
| 579 | 10.2 | 51.0 | 34 | 12 | AO034165 | AO034165 1(2)05518 | 652 | 10.2 | 51.0 | 79 | 10 | W73356 | W73356 zd53a06.sl |
| 580 | 10.2 | 51.0 | 35 | 12 | BH011362 | BH011362 BG01007-5 | 653 | 10.2 | 51.0 | 80 | 9 | AA651646 | AA651646 ns89b12.s |
| 581 | 10.2 | 51.0 | 38 | 9 | AA693760 | AA693760 qX03b04.x | 654 | 10.2 | 51.0 | 80 | 9 | AA990044 | AA990044 uA56f12.r |
| 582 | 10.2 | 51.0 | 38 | 9 | AI250268 | AI250268 qX03b04.x | 655 | 10.2 | 51.0 | 80 | 12 | AZ781507 | AZ781507 ZM0019P20 |
| 583 | 10.2 | 51.0 | 38 | 10 | AI627875 | AI627875 tY20b06.x | 656 | 10.2 | 51.0 | 81 | 12 | AZ822895 | AZ822895 ZM0096I01 |
| 584 | 10.2 | 51.0 | 38 | 9 | BE867787 | BE867787 601443749 | 657 | 10.2 | 51.0 | 81 | 9 | AA813818 | AA813818 a172d03.s |
| 585 | 10.2 | 51.0 | 39 | 10 | BM395923 | BM395923 5009-0-14 | 658 | 10.2 | 51.0 | 82 | 9 | AA885641 | AA885641 c132b12.s |
| 586 | 10.2 | 51.0 | 41 | 12 | AZ310719 | AZ310719 IM0025L15 | 659 | 10.2 | 51.0 | 82 | 9 | AA126682 | AA126682 z171f05.r |
| 587 | 10.2 | 51.0 | 42 | 12 | CNS0717H | AL611855 Anopheles | 660 | 10.2 | 51.0 | 82 | 10 | H42499 | H42499 y064f08.sl |
| 588 | 10.2 | 51.0 | 43 | 12 | AZ849548 | AZ849548 ZM0151G05 | 661 | 10.2 | 51.0 | 83 | 9 | AA658005 | AA658005 nv15a08.s |
| 589 | 10.2 | 51.0 | 44 | 9 | AA968783 | AA968783 og91a10.s | 662 | 10.2 | 51.0 | 83 | 9 | AA688244 | AA688244 nvi1e07.s |
| 590 | 10.2 | 51.0 | 44 | 10 | H55075 | H55075 CHR220014 C | 663 | 10.2 | 51.0 | 83 | 9 | AA258647 | AA258647 zr61g07.s |
| 591 | 10.2 | 51.0 | 48 | 12 | AZ438804 | AZ438804 IM0229M04 | 664 | 10.2 | 51.0 | 83 | 10 | BF198131 | BF198131 7p90b01.x |
| 592 | 10.2 | 51.0 | 49 | 9 | AA826426 | AA826426 oe58e02.s | 665 | 10.2 | 51.0 | 83 | 12 | AZ919661 | AZ919661 1006016C0 |
| 593 | 10.2 | 51.0 | 49 | 9 | AI208610 | AI208610 q945h02.x | 666 | 10.2 | 51.0 | 84 | 10 | BM370135 | BM370135 rS85e06.y |
| 594 | 10.2 | 51.0 | 50 | 9 | AI010716 | AI010716 1007035G1 | 667 | 10.2 | 51.0 | 84 | 12 | AZ918269 | AZ918269 1006003G1 |
| 595 | 10.2 | 51.0 | 51 | 12 | BH414004 | BH414004 1007035G1 | 668 | 10.2 | 51.0 | 85 | 9 | AI8769259 | AI8769259 n15d11.s |
| 596 | 10.2 | 51.0 | 52 | 12 | AA989338 | AA989338 or83f01.s | 669 | 10.2 | 51.0 | 85 | 9 | AI287573 | AI287573 wF10e08.x |
| 597 | 10.2 | 51.0 | 52 | 12 | AZ783523 | AZ783523 ZM0025A20 | 670 | 10.2 | 51.0 | 85 | 10 | BG942433 | BG942433 ax25b02.x |
| 598 | 10.2 | 51.0 | 53 | 12 | AZ816138 | AZ816138 ZM0084E13 | 671 | 10.2 | 51.0 | 86 | 9 | AI420838 | AI420838 tF03a06.x |
| 599 | 10.2 | 51.0 | 53 | 12 | HSMC09A07 | H88438 H.sepiens D | 672 | 10.2 | 51.0 | 86 | 9 | AA283260 | AA283260 CUC041 HT |
| 600 | 10.2 | 51.0 | 56 | 9 | AA468465 | AA468465 nc78b11.r | 673 | 10.2 | 51.0 | 86 | 10 | F32848 | F32848 HSPD25913 H |
| 601 | 10.2 | 51.0 | 56 | 10 | T58838 | T58838 yb80g09.r1 | 674 | 10.2 | 51.0 | 86 | 12 | AZ320579 | AZ320579 IM0040O11 |

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|-----|------|------|-----|----|-----------|----------------------|-------|------|------|-----|----|-----------|-----------------------|
| 675 | 10.2 | 51.0 | 86 | 12 | A2929071 | A2929071 479. dif21 | c 748 | 10.2 | 51.0 | 100 | 9 | BE068516 | BE068516 MRI - BT037 |
| 676 | 10.2 | 51.0 | 87 | 9 | AA658183 | AA658183 nule607.s | c 749 | 10.2 | 51.0 | 100 | 10 | BEF830964 | BEF830964 CMI - HT087 |
| 677 | 10.2 | 51.0 | 87 | 9 | AA980817 | AA980817 ua45h12.r | c 750 | 10.2 | 51.0 | 100 | 10 | BEF907248 | BEF907248 OVI - UT009 |
| 678 | 10.2 | 51.0 | 87 | 10 | BM182561 | BM182561 fvs9d03.y | c 751 | 10.2 | 51.0 | 100 | 10 | BI002846 | BI002846 MR3 - HN016 |
| 679 | 10.2 | 51.0 | 87 | 10 | H24602 | H24602 y140b03.r1 | c 752 | 10.2 | 51.0 | 100 | 10 | BM4035568 | BM4035568 znm4888.z |
| 680 | 10.2 | 51.0 | 87 | 12 | AQ934909 | AQ934909 D1BRCM0 | c 753 | 10.2 | 51.0 | 100 | 10 | T80551 | T80551 y06802.r1 |
| 681 | 10.2 | 51.0 | 87 | 12 | A2309906 | A2309906 IM0017M17 | c 754 | 10.2 | 51.0 | 100 | 10 | BF335840 | BF335840 CM2 - CT048 |
| 682 | 10.2 | 51.0 | 87 | 12 | BH408472 | BH408472 1007003C0 | c 755 | 10.2 | 51.0 | 100 | 12 | A2922407 | A2922407 MRC05C10 |
| 683 | 10.2 | 51.0 | 88 | 9 | AA717017 | AA717017 vu61d02.r | c 756 | 10.2 | 51.0 | 23 | 12 | A2622587 | A2622587 IM0459F02 |
| 684 | 10.2 | 51.0 | 88 | 9 | AA939780 | AA939780 vz92g01.r | c 757 | 10.2 | 51.0 | 28 | 12 | H22321 | H22321 y136d09.r1 |
| 685 | 10.2 | 51.0 | 88 | 9 | AA163135 | AA163135 mlt74d10.r | c 758 | 10.2 | 51.0 | 29 | 12 | A2387194 | A2387194 IM0146N20 |
| 686 | 10.2 | 51.0 | 88 | 9 | AA527375 | AA527375 ng40d03.s | c 759 | 10.2 | 51.0 | 29 | 12 | TR365E07P | TR365E07P T. brucei |
| 687 | 10.2 | 51.0 | 88 | 9 | AA572498 | AA572498 v182f11.r | c 760 | 10.2 | 51.0 | 31 | 9 | A1022023 | A1022023 ow72a02.x |
| 688 | 10.2 | 51.0 | 88 | 12 | BH629256 | BH629256 1007081F0 | c 761 | 10.2 | 51.0 | 34 | 9 | AA854490 | AA854490 aj75c02.s |
| 689 | 10.2 | 51.0 | 89 | 9 | AA929279 | AA929279 vz40c11.r | c 762 | 10.2 | 51.0 | 34 | 9 | AA529780 | AA529780 va87b10.r |
| 690 | 10.2 | 51.0 | 89 | 10 | BG405983 | BG405983 sac40e07. | c 763 | 10.2 | 51.0 | 36 | 12 | A2331632 | A2331632 IM0059N10 |
| 691 | 10.2 | 51.0 | 89 | 10 | BM431933 | BM431933 1JF114C5. | c 764 | 10.2 | 51.0 | 37 | 9 | AT277381 | AT277381 gms4d06.x |
| 692 | 10.2 | 51.0 | 89 | 10 | X65379 | X65379 HSB53EST.Hu | c 765 | 10.2 | 51.0 | 37 | 9 | A13331691 | A13331691 f01a003.y |
| 693 | 10.2 | 51.0 | 89 | 12 | A2629836 | A2629836 IM0483M03 | c 766 | 10.2 | 51.0 | 41 | 9 | AA250929 | AA250929 2821299.3 |
| 694 | 10.2 | 51.0 | 89 | 12 | A2919689 | A2919689 1006016C0 | c 767 | 10.2 | 51.0 | 41 | 12 | A2612511 | A2612511 IM0439006 |
| 695 | 10.2 | 51.0 | 89 | 12 | BH129710 | BH129710 G-5ml8.f | c 768 | 10.2 | 51.0 | 41 | 12 | BH614871 | BH614871 KC02360-3 |
| 696 | 10.2 | 51.0 | 89 | 12 | AQ444164 | AQ444164 GSS7C0219 | c 769 | 10.2 | 51.0 | 43 | 9 | AA225184 | AA225184 nc22f10.s |
| 697 | 10.2 | 51.0 | 90 | 9 | AA903196 | AA903196 ok48d10.s | c 770 | 10.2 | 51.0 | 45 | 12 | A2635879 | A2635879 IM0493022 |
| 698 | 10.2 | 51.0 | 90 | 9 | AJ310713 | AJ310713 AJ310713 | c 771 | 10.2 | 51.0 | 46 | 9 | AA622161 | AA622161 nq56f10.s |
| 699 | 10.2 | 51.0 | 90 | 9 | AL637560 | AL637560 AL637560 | c 772 | 10.2 | 51.0 | 46 | 12 | A2429958 | A2429958 IM0214N07 |
| 700 | 10.2 | 51.0 | 90 | 10 | BE783827 | BE783827 601471054 | c 773 | 10.2 | 51.0 | 48 | 12 | A2331129 | A2331129 IM0056M21 |
| 701 | 10.2 | 51.0 | 90 | 10 | BF128228 | BF128228 601810466 | c 774 | 10.2 | 51.0 | 49 | 9 | AA736667 | AA736667 oa18h06.s |
| 702 | 10.2 | 51.0 | 90 | 12 | A2467396 | A2467396 IM0278F18 | c 775 | 10.2 | 51.0 | 49 | 9 | AA903833 | AA903833 ok60g11.r |
| 703 | 10.2 | 51.0 | 91 | 9 | AA804884 | AA804884 ob99a07.s | c 776 | 10.2 | 51.0 | 49 | 9 | AA140338 | AA140338 mr83g12.r |
| 704 | 10.2 | 51.0 | 91 | 9 | AT194377 | AT194377 u116a08.r | c 777 | 10.2 | 51.0 | 49 | 9 | ATB14770 | ATB14770 wk65e08.x |
| 705 | 10.2 | 51.0 | 91 | 9 | AA075928 | AA075928 zm76c12.f | c 778 | 10.2 | 51.0 | 49 | 12 | A2427327 | A2427327 IM0209P11 |
| 706 | 10.2 | 51.0 | 91 | 10 | BG941433 | BG941433 ax12h12.x | c 779 | 10.2 | 51.0 | 49 | 12 | A2467980 | A2467980 IM0279A18 |
| 707 | 10.2 | 51.0 | 91 | 12 | A2921969 | A2921969 HRCotLB10 | c 780 | 10.2 | 51.0 | 49 | 12 | A2579546 | A2579546 IM0367J07 |
| 708 | 10.2 | 51.0 | 91 | 12 | AG022945 | AG022945 Oryza sat | c 781 | 10.2 | 51.0 | 50 | 9 | AU102724 | AU102724 AU102724 |
| 709 | 10.2 | 51.0 | 92 | 9 | AA648874 | AA648874 ns40e01.s | c 782 | 10.2 | 51.0 | 50 | 9 | AU104730 | AU104730 AU104730 |
| 710 | 10.2 | 51.0 | 92 | 9 | AT105874 | AT105874 db04e05.p | c 783 | 10.2 | 51.0 | 50 | 9 | AU106831 | AU106831 AU106831 |
| 711 | 10.2 | 51.0 | 92 | 10 | BG247493 | BG247493 602360249 | c 784 | 10.2 | 51.0 | 50 | 9 | AU106832 | AU106832 AU106832 |
| 712 | 10.2 | 51.0 | 92 | 12 | A2423578 | A2423578 IM0202C13 | c 785 | 10.2 | 51.0 | 50 | 9 | AU106833 | AU106833 AU106833 |
| 713 | 10.2 | 51.0 | 93 | 10 | BI255062 | BI255062 602925902 | c 786 | 10.2 | 51.0 | 50 | 9 | AU106844 | AU106844 AU106844 |
| 714 | 10.2 | 51.0 | 93 | 12 | BH412382 | BH412382 1007026G1 | c 787 | 10.2 | 51.0 | 50 | 9 | AU106848 | AU106848 AU106848 |
| 715 | 10.2 | 51.0 | 94 | 9 | AT201345 | AT201345 qf78h10.x | c 788 | 10.2 | 51.0 | 50 | 9 | AU107420 | AU107420 AU107420 |
| 716 | 10.2 | 51.0 | 94 | 9 | AA197619 | AA197619 mul19a03.r | c 789 | 10.2 | 51.0 | 50 | 9 | AU108092 | AU108092 AU108092 |
| 717 | 10.2 | 51.0 | 94 | 10 | BG363091 | BG363091 sac10B08. | c 790 | 10.2 | 51.0 | 50 | 10 | BG118062 | BG118062 6023349817 |
| 718 | 10.2 | 51.0 | 95 | 12 | A2806564 | A2806564 2M0068M11 | c 791 | 10.2 | 51.0 | 50 | 10 | H74150 | H74150 ys16c04.r1 |
| 719 | 10.2 | 51.0 | 95 | 12 | A2836045 | A2836045 2M0130D08 | c 792 | 10.2 | 51.0 | 51 | 9 | AT183237 | AT183237 at76d05.x |
| 720 | 10.2 | 51.0 | 95 | 12 | CNS03WCO | AT1625155 Tetracodon | c 793 | 10.2 | 51.0 | 52 | 9 | AA782045 | AA782045 a148d06.s |
| 721 | 10.2 | 51.0 | 96 | 9 | AT1625155 | AT1625155 ts47g08.x | c 794 | 10.2 | 51.0 | 52 | 9 | AA839503 | AA839503 uc98e08.r |
| 722 | 10.2 | 51.0 | 96 | 10 | BI761254 | BI761254 603043496 | c 795 | 10.2 | 51.0 | 52 | 9 | AA059751 | AA059751 LE3c07.yg |
| 723 | 10.2 | 51.0 | 97 | 9 | AA919512 | AA919512 vz20h12.r | c 796 | 10.2 | 51.0 | 52 | 12 | CNS02NOK | AT1205661 Tetracodon |
| 724 | 10.2 | 51.0 | 97 | 10 | BI765504 | BI765504 603050572 | c 797 | 10.2 | 51.0 | 53 | 10 | BM046891 | BM046891 603627102 |
| 725 | 10.2 | 51.0 | 97 | 10 | H42650 | H42650 yp13c11..r1 | c 798 | 10.2 | 51.0 | 53 | 10 | T27206 | T27206 MTO-225 Hum |
| 726 | 10.2 | 51.0 | 97 | 12 | T61787 | T61787 ypB93h09..r1 | c 799 | 10.2 | 51.0 | 53 | 12 | CNS01SD9 | AT165078 Tetracodon |
| 727 | 10.2 | 51.0 | 97 | 12 | A2466822 | A2466822 1M0277J18 | c 800 | 10.2 | 51.0 | 54 | 10 | BE968362 | BE968362 601649164 |
| 728 | 10.2 | 51.0 | 97 | 12 | AZ953337 | AZ953337 2M0218T03 | c 801 | 10.2 | 51.0 | 54 | 12 | A2773229 | AT2773229 IM0583F07 |
| 729 | 10.2 | 51.0 | 98 | 9 | AT720612 | AT720612 as70f08.x | c 802 | 10.2 | 51.0 | 55 | 9 | AU109842 | AT1098452 uc05g04.r |
| 730 | 10.2 | 51.0 | 98 | 9 | AV678423 | AV678423 AV678423 | c 803 | 10.2 | 51.0 | 55 | 9 | A1123105 | AT1123105 qa85b11.s |
| 731 | 10.2 | 51.0 | 98 | 12 | A2848683 | A2848683 2M0149H16 | c 804 | 10.2 | 51.0 | 55 | 9 | A1159145 | AT1159145 vx83h01.r |
| 732 | 10.2 | 51.0 | 98 | 12 | TA291C02Q | TA291C02Q T. brucei | c 805 | 10.2 | 51.0 | 55 | 9 | AT1689452 | AT1689452 tx94c04.x |
| 733 | 10.2 | 51.0 | 99 | 9 | AA064484 | AA064484 m149e08.r | c 806 | 10.2 | 51.0 | 55 | 10 | BI557617 | BI557617 603237163 |
| 734 | 10.2 | 51.0 | 99 | 9 | AA920537 | AA920537 vvs3e09.r | c 807 | 10.2 | 51.0 | 55 | 10 | BJ064894 | BJ064894 B1064894 |
| 735 | 10.2 | 51.0 | 99 | 9 | AA667668 | AA667668 uh02f07.r | c 808 | 10.2 | 51.0 | 55 | 12 | A2346811 | AT2346811 IM0082A15 |
| 736 | 10.2 | 51.0 | 99 | 9 | AT1118056 | AT1118056 u149a05.x | c 809 | 10.2 | 51.0 | 56 | 10 | BI906543 | BI906543 603064110 |
| 737 | 10.2 | 51.0 | 99 | 9 | AA200411 | AA200411 mu34b04.f | c 810 | 10.2 | 51.0 | 56 | 12 | A2306986 | AT2306986 IM0008J16 |
| 738 | 10.2 | 51.0 | 99 | 12 | H55604 | H55604 CHR220543.C | c 811 | 10.2 | 51.0 | 56 | 12 | A2338536 | AT2338536 IM0069G11 |
| 739 | 10.2 | 51.0 | 99 | 12 | A2953640 | A2953640 2M0219B02 | c 812 | 10.2 | 51.0 | 57 | 12 | CNS02S8W | AT231577 Tetracodon |
| 740 | 10.2 | 51.0 | 100 | 9 | AA009113 | AA009113 mg92g12.r | c 813 | 10.2 | 51.0 | 58 | 9 | AA175373 | AT175373 ms91d03.r |
| 741 | 10.2 | 51.0 | 100 | 9 | AA721657 | AA721657 ny72e04.s | c 814 | 10.2 | 51.0 | 58 | 9 | AA222289 | AA222289 mw21f10.r |
| 742 | 10.2 | 51.0 | 100 | 9 | AA171677 | AA171677 zo94h07.r | c 815 | 10.2 | 51.0 | 58 | 9 | AA423329 | AA423329 sh68b04.y |
| 743 | 10.2 | 51.0 | 100 | 9 | AA252942 | AA252942 zr50g11.r | c 816 | 10.2 | 51.0 | 58 | 9 | AA397430 | AA397430 nc64e02.r |
| 744 | 10.2 | 51.0 | 100 | 9 | AA288900 | AA288900 mr45a02.r | c 817 | 10.2 | 51.0 | 58 | 12 | A2792055 | AT2792055 2M0043E15 |
| 745 | 10.2 | 51.0 | 100 | 9 | AVB41630 | AVB41630 AVB41630 | c 818 | 10.2 | 51.0 | 59 | 9 | AA161559 | AA161559 MBARCF180 |
| 746 | 10.2 | 51.0 | 100 | 9 | AA395577 | AA395577 sg72g11.y | c 819 | 10.2 | 51.0 | 59 | 10 | BM383941 | BM383941 K135e08.y |
| 747 | 10.2 | 51.0 | 100 | 9 | AA674484 | AA674484 ba64d08.y | c 820 | 10.2 | 51.0 | 59 | 10 | BM318939 | BM318939 K162c01.y |

| | | | | | | |
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| 967 | 10 | 50.0 | 92 | 12 | TA134C1IP | AA466056 T. brucei |
| C 968 | 10 | 50.0 | 93 | 9 | AI098912 | AI098912 ue37f06.y |
| C 969 | 10 | 50.0 | 93 | 9 | AA103152 | AA103152 mol8h09.r |
| C 970 | 10 | 50.0 | 93 | 9 | AA223677 | AA223677 zr09c10.r |
| C 971 | 10 | 50.0 | 93 | 10 | BJ001134 | BJ001134 BJ001134 |
| C 972 | 10 | 50.0 | 93 | 10 | R17649 | R17649 yg15g06.r1 |
| C 973 | 10 | 50.0 | 93 | 10 | BE910843 | BE910843 601661915 |
| C 974 | 10 | 50.0 | 93 | 12 | AZ766376 | AZ766376 1M0563122 |
| C 975 | 10 | 50.0 | 93 | 12 | AZ813195 | AZ813195 2M0080B20 |
| C 976 | 10 | 50.0 | 93 | 12 | BH229641 | BH229641 1006153E0 |
| C 977 | 10 | 50.0 | 94 | 9 | AA936998 | AA936998 0185c09.s |
| C 978 | 10 | 50.0 | 94 | 9 | AA238770 | AA238770 mx82b02.r |
| C 979 | 10 | 50.0 | 94 | 9 | AA230303 | AA230303 up28h05.y |
| C 980 | 10 | 50.0 | 94 | 9 | AA458495 | AA458495 sh09h08.y |
| C 981 | 10 | 50.0 | 94 | 9 | AA397460 | AA397460 nc65g03.r |
| C 982 | 10 | 50.0 | 94 | 9 | AA482609 | AA482609 zt34d09.s |
| C 983 | 10 | 50.0 | 94 | 10 | H95285 | H95285 yu20a03.r1 |
| C 984 | 10 | 50.0 | 94 | 10 | N20529 | N20529 yx43c07.s1 |
| C 985 | 10 | 50.0 | 94 | 10 | W16006 | W16006 mb59e04.r1 |
| C 986 | 10 | 50.0 | 94 | 12 | AF149538 | AF149538 AF149538 |
| C 987 | 10 | 50.0 | 94 | 12 | AZ483526 | AZ483526 1M0309H13 |
| C 988 | 10 | 50.0 | 94 | 12 | AZ873100 | AZ873100 2M0186012 |
| C 989 | 10 | 50.0 | 95 | 9 | AI153902 | AI153902 ud50e04.r |
| C 990 | 10 | 50.0 | 95 | 9 | BE226862 | BE226862 us73f03.y |
| C 991 | 10 | 50.0 | 95 | 12 | AZ810623 | AZ810623 2M0076618 |
| C 992 | 10 | 50.0 | 95 | 12 | BH417884 | BH417884 Mus1te01 |
| C 993 | 10 | 50.0 | 95 | 12 | TA131E06P | TA131E06P |
| C 994 | 10 | 50.0 | 96 | 9 | AA822335 | AA822335 vw08e07.r |
| C 995 | 10 | 50.0 | 96 | 9 | AA105914 | AA105914 ml82a11.r |
| C 996 | 10 | 50.0 | 96 | 9 | AA220850 | AA220850 mv69d06.r |
| C 997 | 10 | 50.0 | 96 | 9 | AA618209 | AA618209 nq15c07.s |
| C 998 | 10 | 50.0 | 96 | 12 | BH409432 | BH409432 1007012C0 |
| C 999 | 10 | 50.0 | 96 | 12 | BH418059 | BH418059 sk2-1c5 M |
| C1000 | 10 | 50.0 | 96 | 12 | CNS03GNG | AL243205 Tetradon |

ALIGNMENTS

RESULT 1 76 bp mRNA linear EST 29-MAY-1997
 AA435395/c
 LOCUS vbl5h12.r1 Soares mouse NBMH Mus musculus cDNA clone IMAGE:1818279
 DEFINITION 5' similar to TR:G793765 G793765 NEUROBLASTOMA AND RAT GLIOMA
 HYBRIDOMA MRNA. ; mRNA sequence.

ACCESSION AA435395 GI:2140215
 VERSION AA435395
 KEYWORDS house mouse.
 SOURCE Mus musculus
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 76)
 AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.
 TITLE The WashU-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Marra M/Mouse EST Project
 WashU-HMI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:486559
 Possible reversed clone: similarity on wrong strand
 Seq primer: -28m13 rev2 ET from Amersham

FEATURES High quality sequence stop: 1.
 source Location/Qualifiers
 1..76
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_id="Soares mouse NBMH"
 /sex="male"
 /tissue_type="heart"
 /dev_stage="4 weeks"
 /lab_host="DHI0B"

BASE COUNT 23 a 17 c 12 g 24 t
 ORIGIN
 Query Match 72.0%; Score 14.4; DB 9; Length 76;
 Best Local Similarity 93.8%; Pred. No. 3.7e+03;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 2 aaacgtgaggactca 17
 |||||
 63 AAACGTGAGGACATCA 48
 Bonaldo."

RESULT 2 83 bp mRNA linear EST 28-MAR-1997
 AA273626
 LOCUS vb95d06.r1 Soares mouse 3NBMS Mus musculus cDNA clone IMAGE:764747
 DEFINITION 5', mRNA sequence.
 ACCESSION AA273626 GI:1912693
 VERSION AA273626
 KEYWORDS house mouse.
 SOURCE Mus musculus
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 83)
 AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.
 TITLE The WashU-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Marra M/Mouse EST Project
 WashU-HMI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:465667
 Seq primer: -28m13 rev2 ET from Amersham
 High quality sequence stop: 75.
 Location/Qualifiers
 1..83
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_id="IMAGE:764747"

FEATURES
 source

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/clone_lib="Soares mouse 3NBMS"
/sex="male"
/tissue_type="Spleen"
/dev_stage="4 weeks"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5'
TGTTCACCATCTGACGTGGAGCGCGCTCTTTTCTTTTCTTTTCTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT73 vector. RNA
provided by Dr. Bertrand Jordan. Library went through
three rounds of normalization, and was constructed by
Bento Soares and M. Fatima Bernaldo."
```

BASE COUNT 25 a 17 c 22 g 19 t

ORIGIN

Query Match 71.0%; Score 14.2; DB 9; Length 83;
Best Local Similarity 84.2%; Pred. No. 4.8e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 gaacgtgaggaactcagc 19
||||| ||| ||| |||
Db 4 GAAACGTAGGACGACGACG 22

RESULT 3 46 bp mRNA linear EST 09-SEP-1997
AA568369 n188c09.s1 NCI-CGAP_Col10 Homo sapiens cDNA clone IMAGE:1057744 3'
LOCUS n188c09.s1 TR:G662112 G662112 BAG-1.; mRNA sequence.
DEFINITION
ACCESSION AA568369
VERSION AA568369.1 GI:2341423
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 46)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nlm.nih.gov
Tissue Procurement: Ilan Kirsch, M.D., Michael R. Emmert-Buck, M.D.,
Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.dio.llnl.gov/dbirp/image/image.html

Trace considered overall poor quality
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Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 46
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/db_xref="taxon:9606"
/clone_image="1057744"
/clone_lib="NCI-CGAP_Col10"
/tissue_type="colon tumor RER+"
/lab_host="DH10B"
/note="Organ: colon; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
RER+ colon tumor, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned

into the Not I and Eco RI sites of the modified pT73
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bernaldo (N-Soares4)."

BASE COUNT 13 a 13 c 10 g 10 t

ORIGIN

Query Match 68.0%; Score 13.6; DB 9; Length 46;
Best Local Similarity 80.0%; Pred. No. 7.8e+03;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 gaacgtgaggaactcagca 20
||||| ||| ||| |||
Db 26 GCAACGTAGGACGCTCTGCA 7

RESULT 4 60 bp DNA linear GSS 10-DEC-2001
A2922939
LOCUS A2922939
DEFINITION SLCot1B02 Sorghum bicolor SLCot Sorghum bicolor genomic, DNA
sequence.
ACCESSION A2922939
VERSION A2922939.1 GI:13433160
KEYWORDS GSS.
SOURCE sorghum.
ORGANISM Sorghum bicolor
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC
clade; Panicoideae; Andropogoneae; Sorghum.
REFERENCE 1 (bases 1 to 60)
AUTHORS Peterson,D.G., Schulze,S.R., Lee,S.A., Sclaire,E.B., Nagel,A.,
Tibbitts,D.C., Wessler,S.R. and Peterson,A.H.
TITLE Characterization of the Sorghum bicolor genome using DNA
renaturation kinetics (Cot analysis) and repetition-based cloning
Unpublished (2001)
JOURNAL Contact: Peterson DG
COMMENT Plant Genome Mapping Laboratory
University of Georgia
Room 162, Riverbend Research Bldg., 110 Riverbend Rd., Athens, GA
30602, USA
Tel: 706-583-0167
Fax: 706-583-0160
Email: dg@arches.uga.edu
Class: Hydroxyapatite-fractionated DNA.
Location/Qualifiers
1. 60
/organism="Sorghum bicolor"
/cultivar="BTx623"
/db_xref="taxon:4558"
/clone_lib="Sorghum bicolor SLCot"
/tissue_type="leaves"
/dev_stage="seedling"
/note="Vector: pGEM-TA-Easy; A Cot analysis was performed
for the sorghum genome. Based on the resulting Cot curve,
hydroxyapatite chromatography was used to isolate
'highly-repetitive' (HR), 'moderately-repetitive' (MR),
and 'single/low-copy' (SL) sequence components from
sheared genomic DNA. The three repetition-based DNA
components were cloned into E. coli to produce HRCot,
MRCot, and SLCot genomic libraries. Blotting and
sequencing data indicates that each library is
representative of the component from which it was derived.
Putative ID listings given for sequences are based on
comparision (blastn) with sequences in the NCBI Nr
Database. Only the primary match is given (all primary E
values are < or =3D 1.00E-5). In no instance does a 'Cot
clone' contain the complete sequence of its putative Nr
match."

BASE COUNT 14 a 11 c 16 g 19 t

ORIGIN

Query Match 66.0%; Score 13.2; DB 12; Length 60;

Single pass DNA sequencing was performed using the T3 promoter primer: 5' ATTAACTCCACGCTAAAGGA 3'. This library was constructed by Alex Richman."

| | | | | | |
|------------|-----|------|------|------|----------|
| BASE COUNT | 7 a | 14 c | 13 g | 29 t | 3 others |
| ORIGIN | | | | | |

| | | | | |
|-----------------------|-----------------|--------------------|-----------|------------|
| Query Match | 64.0%; | Score 12.8; | DB 10; | Length 66; |
| Best Local Similarity | 82.4%; | Prod. No. 2.2e+04; | | |
| Matches 14; | Conservative 0; | Mismatches 3; | Indels 0; | Gaps 0; |

```

OY      1  gaacgtgaggactca 17
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Db      39  GAAACGTCAGGAACNCA 23

```

RESULT 7
AF179194

| REFERENCE | AUTHORS | TITLE | JOURNAL |
|-------------------|--|---|---------------------------------|
| 1 (bases 1 to 52) | Wendelfer, S. E., Slack, J. P., McCluskey, T. S. and Monaco, J. J. | Identification of 40 genes on a 1-Mb contig around the IL-4 cytokine family gene cluster on mouse chromosome 11 | Genomics 63 (3), 354-373 (2000) |

COMMENT
Contact: Wenderfer SE
Department of Molecular Genetics, Biochemistry, and Microbiology
University of Cincinnati
231 Bethesda Avenue ML524, Cincinnati, OH 45267-0524, USA
probasin: derived from PAC 534c2; exon-trapping in pSPJ construct
; the same exon is present on the X chromosome within an intron of
the Snage2 gene; it is not known if the functional probasin gene is
encoded on chromosome 11 or the X chromosome
Class: exon-trapped.

| | | | | |
|------------|------|------|-----|------|
| BASE COUNT | 21 a | 12 c | 9 g | 10 t |
| ORIGIN | | | | |

| | | | | |
|--------------------------|-------|--------------------|-----------|------------|
| Query Match | 63.0% | Score 12.6; | DB 12; | Length 52; |
| Best Local Similarity | 78.9% | Pred. No. 2.5e+04; | | |
| Matches 15; Conservative | 0; | Mismatches 4; | Indels 0; | Gaps 0; |

| | | | |
|----|----|--------------------|----|
| QY | 2 | aaacgtgaggtcagca | 20 |
| | | | |
| Db | 21 | AAACCTTAGTGACTCACA | 39 |

| | |
|----------------|--|
| RESULT | 8 |
| AA908846/c | |
| LOCUS | |
| DEFINITION | AA908846 58 bp mRNA linear EST 09-JUN-1998 |
| | o1069d2.st NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1522706 3' |
| | similar to SW:OAZ_HUMAN P54366 ONNITHINE DECARBOXYLASE ANTIZYME ;, |
| mRNA sequence: | |

SOURCE human
ORGANISM Homo ;

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Cranialta; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

| REFERENCE | AUTHORS | TITLE |
|-------------------|--|---|
| 1 (bases 1 to 58) | NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap . | National Cancer Institute, Cancer Genome Anatomy Project (CGAP) |

JOURNAL COMMENT
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.

Tissue Procurement: Christopher Moskaluk, M.D.,
Emmert Buck, M.D., Ph.D.
cDNA library Preparation: M. Bento Soares, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
www-bio.lnl.gov/dbfp/image/image.html

Trace considered overall poor quality
 Insert Length: 1059 Std Error: 0.00
 Seq primer: -40ml3 fwd. ET from Amersham
 High quality sequence stop: 1.

FEATURES

source

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1522706"
/clone_id="NCI_CGAP_Lu5"
/tissue_type="carcinoid"
/lab_host="DH10B"

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| | | | | |
|------------|------|-----|------|------|
| BASE COUNT | 17 a | 9 c | 19 g | 13 t |
| ORIGIN | | | | |

| | | | | |
|-----------------------|----------------|-------------------|----------|-----------|
| Query Match | 63.0% | Score 12.6 | DB 9 | Length 58 |
| Best Local Similarity | 78.9% | Pred. No. 2.6e+04 | | |
| Matches 15 | Conservative 0 | Mismatches 4 | Indels 0 | Gaps 0 |

| | | | |
|----|----|--------------------|----|
| QY | 1 | gaacgtgaggactcagc | 19 |
| | | | |
| Db | 41 | GAACCCGAGGGACAGAGC | 23 |

| RESULT | 9 |
|----------------|---|
| AA420316 | 61 bp mRNA linear EST 16-OCT-1997 |
| LOCUS | |
| DEFINITION | vt010a01.s1 Knowles Solter mouse 2 cell Mus musculus cDNA clone |
| IMAGE:792072 | 5' similar to TR:G1345400 G1345400 ENHANCER PROTEIN ; , |
| mRNA sequence. | |

| SOURCE | ORGANISM |
|--------------|--------------|
| house mouse. | Mus musculus |

REFERENCE
AUTHORS
1 Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Mus.
(bases 1 to 61)
Marr, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,

TITLE
The Washu-HHMI Mouse EST Project

Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
Mashu zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbrafish@wustl.wustl.edu

CDNA Library Preparation: Matthew Clark. CDNA Library Arrayed by: Matthew Clark. DNA Sequencing by: Washington University Genome Sequencing Center clone distribution: Genome Systems, St. Louis, Missouri (web address: www.genomesystems.com) (email contact: info@genomesystems.com) and Research Genetics, Huntsville, Alabama (web address: www.resgen.com) (email contact: info@resgen.com) and ResourcenZentrumPirmasdenbank, Berlin, Germany (web address: www.rzpd.de)

Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: T3 ET from Amersham
High quality sequence stop: 1
POLYA-NO.

FEATURES

SOURCE

Location/Qualifiers
1..58
/organism="Danio rerio"
/db_xref="taxon:7955"
/clone="IMAGE:3712775"
/clone_lib="Zebrafish Mashu MPMG EST"
/sex="mixed"
/tissue_type="26 somite embryos, adult livers, shield stage embryos"
/lab_host="XII-blue MRF"
/note="Vector: pSPORT1; Site1: NotI; Site2: SalI; 1st strand cDNA was primed with a Not I - oligo(dT)15 primer [5' pGACTAGTCTGATCGGAGCGCCGCTTTTCTTTTCTT3']; double-stranded cDNA was ligated into Sal I adaptors (BRL), digested with Not I and cloned into the Not I and Sal I sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik Berlin). cDNAs for EST analysis were selected following oligonucleotide hybridization fingerprinting of arrayed clones from zebrafish late somitogenesis (26 ss), adult liver or embryonic shield stage (5.6 h) libraries. Fingerprint data were used to computationally cluster cDNAs, and a single cDNA from each cluster was chosen for sequencing. In some cases multiple members of the same cluster were sequenced to assess clustering parameters or single clones were sequenced additional times to assess quality control."

BASE COUNT 23 a 13 c 9 g 13 t
ORIGIN

Query Match 62.0%; Score 12.4; DB 9; Length 58;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 gaacgtgaaggac 14
|||||
Db 11 GAACATGAGGAC 24

RESULT 15
AM323886/c AM323886 91 bp mRNA linear EST 26-JAN-2000
LOCUS uq41a05.y1 NCI_CGAP_Mam5 Mus musculus cDNA clone IMAGE:2811920 5',
DEFINITION mRNA sequence.
ACCESSION AM323886
VERSION AM323886.1 GI:6757911
KEYWORDS EST.

SOURCE

house mouse.
Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

AUTHORS

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

TITLE

Tumor Gene Index

JOURNAL

Unpublished (1997)

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov

Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: www-bio.llnl.gov/bdtp/image/image.html

MGI:1044532

Seq primer: -40RP from Gibco
High quality sequence stop: 87.

FEATURES

SOURCE

Location/Qualifiers
1..91
/organism="Mus musculus"
/strain="C57/B6"
/db_xref="taxon:10090"
/clone="IMAGE:2811920"
/clone_lib="NCI_CGAP_Mam5"
/tissue_type="tumor, gross tissue"
/dev_stage="7 months"
/lab_host="DH10B"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site1: SalI; Site2: NotI; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Robin Humphreys, NIH"

BASE COUNT 25 a 28 c 25 g 13 t
ORIGIN

Query Match 62.0%; Score 12.4; DB 9; Length 91;
Best Local Similarity 92.9%; Pred. No. 3.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 7 tgaaggactcagca 20
|||||
Db 88 TGAGGATCAGCA 75

Search completed: July 19, 2002, 02:11:08
Job time: 6489 sec

Fri Jul 19 08:31:22 2002

us-09-817-538-17.rst

XX AC Ant43120.
 XX DT 19-SEP-2001 (first entry)
 XX DE Antisense-Oligo, target HDAC-2 211-236.
 XX KW Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
 XX KW cell proliferation; cancer; restenosis; psoriasis; protozoal infection;
 XX KW fungal infections; ss.
 XX OS Synthetic.
 XX PN WO200138322-A1.
 XX PD 31-MAY-2001
 XX PF 22-NOV-2000; 2000WO-IB01881.
 XX 23-NOV-1999; 99US-0167035.
 PA (METH-) METHYLGENE INC.
 PI Delorme D, Ruel R, Lavole R, Thibault C, Abou-Khalil E;
 DR WPI: 2001-432601/46.
 XX New inhibitors of histone deacetylase e.g.
 PT N-hydroxy-5-(4-(benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for
 PT treating cancer, restenosis or fungal infections -
 XX Disclosure; Page 40; 147pp; English.
 PS The sequences given in AAH47115-21 are oligonucleotides which are
 CC antisense to the histone deacetylase gene, HDAC-2. These
 CC oligonucleotides may be used in combination with an inhibitor of
 CC histone deacetylase enzyme function, to give an improved inhibitory
 CC effect, thereby reducing the amount of inhibitor required to obtain a
 CC given inhibitory effect. Compounds containing these oligonucleotides
 CC may be used to treat cell proliferation conditions such as cancer,
 CC restenosis or psoriasis. They can also be used to treat protozoal
 CC and fungal infections.
 CC Sequence 26 BP; 6 A; 5 C; 8 G; 7 T; 0 other;
 SO

Query Match 1.4%; Score 22.8; DB 22; Length 26;
 Best Local Similarity 92.3%; Pred. No. 4.1e+03;
 Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 211 gaatcgcatgactcataattgctg 236
 DB 26 GAATCCGATGATCCCATTAATTGCTG 1

RESULT 15
 AAC89535/C
 ID AAC89535 standard; DNA; 26 BP.
 XX AAC8953539.
 XX 08-MAR-2001 (first entry)
 DE Human HDAC-1/HDAC-2 PCR primer SEQ ID NO: 5.
 XX Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
 KW HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
 KW gene therapy; PCR primer; ss.
 KW Hem. sapiens.

PD 30-NOV-2000.
 XX 03-MAY-2000; 2000WO-IB01252.
 PF 03-MAY-1999; 99US-0132287.
 XX (METH-) METHYLGENE INC.
 PA Macleod AR, Li Z, Besterman JM;
 PI WPI: 2001-016407/02.
 DR Antisense oligonucleotide that inhibits expression of a histone
 XX deacetylase, useful for treating and/or alleviating the symptoms of
 PT neoplasia, or for inhibiting neoplastic cell growth in an animal -
 XX Example 2; Page 12; 125pp; English.
 PS The present invention provides inhibitors of histone deacetylase enzymes
 CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
 CC inhibitors may be antisense strands or they may be compounds identified
 CC by contacting the enzyme with the compound and measuring the resulting
 CC enzyme activity. These inhibitors are useful for treating cancers and for
 CC identifying which histone deacetylase is involved in a neoplasia.
 CC Sequence 26 BP; 6 A; 5 C; 8 G; 7 T; 0 other;
 SO

Query Match 1.4%; Score 22.8; DB 22; Length 26;
 Best Local Similarity 92.3%; Pred. No. 4.1e+03;
 Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 OY 211 gaatcgcatgactcataattgctg 236
 DB 26 GAATCCGATGATCCCATTAATTGCTG 1

Search completed: July 19, 2002, 01:24:02
 Job time: 8463 sec

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977 14.4 0.9 34 4 US-09-025-769B-306
C 978 14.4 0.9 34 4 US-08-871-488A-12
C 979 14.4 0.9 34 5 PCR-US92-11353-6
C 980 14.4 0.9 34 6 5310667-25
C 981 14.4 0.9 35 1 US-08-197-791-10
C 982 14.4 0.9 35 1 US-08-224-625-4
C 983 14.4 0.9 35 1 US-08-048-975-3
C 984 14.4 0.9 35 1 US-08-448-736-6
C 985 14.4 0.9 35 1 US-08-133-011-77
C 986 14.4 0.9 35 1 US-08-530-493-94
C 987 14.4 0.9 35 1 US-08-452-779-6
C 988 14.4 0.9 35 1 US-08-322-730A-77
C 989 14.4 0.9 35 1 US-08-445-065-6
C 990 14.4 0.9 35 1 US-08-254-404-16
C 991 14.4 0.9 35 2 US-08-686-417-5
C 992 14.4 0.9 35 2 US-08-381-691-2
C 993 14.4 0.9 35 2 US-08-327-451E-16
C 994 14.4 0.9 35 2 US-08-383-619-77
C 995 14.4 0.9 35 2 US-08-818-604-22
C 996 14.4 0.9 35 2 US-08-458-109-16
C 997 14.4 0.9 35 2 US-08-834-655-12
C 998 14.4 0.9 35 2 US-08-833-610-10
C 999 14.4 0.9 35 3 US-08-834-033A-18
C1000 14.4 0.9 35 3 US-08-881-037-106

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ALIGNMENTS

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Sequence 306, App
Sequence 12, Appl
Sequence 6, Appl
Patent No. 531067
Sequence 10, Appl
Sequence 4, Appl1
Sequence 3, Appl1
Sequence 6, Appl1
Sequence 77, Appl
Sequence 94, Appl
Sequence 64, Appl1
Sequence 6, Appl1
Sequence 77, Appl1
Sequence 16, Appl
Sequence 5, Appl
Sequence 2, Appl1
Sequence 16, Appl
Sequence 77, Appl
Sequence 22, Appl
Sequence 16, Appl
Sequence 12, Appl
Sequence 10, Appl
Sequence 18, Appl
Sequence 106, App

```

```

RESULT 1
US-08-245-758-13
; Sequence 17, Application US/08245758
; Patent No. 5607846

```

GENERAL INFORMATION:

```

APPLICANT: Murphy, Timothy F.
APPLICANT: Bhushan, Reva
TITLE OF INVENTION: Vaccine for Moraxella catarrhalis
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSER: Hodgson, Russ, Andrews, Woods & Goodyear
STREET: 1800 One Mt Plaza
CITY: Buffalo
STATE: New York
COUNTRY: United States
ZIP: 14203-2391
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Kb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS/ Microsoft Windows 3.1
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/245,758
FILING DATE: 17/05/94
ATTORNEY/AGENT INFORMATION:
NAME: Nelson, M. Bud
REGISTRATION NUMBER: 35,300
REFERENCE/DOCKET NUMBER: 11520.0051
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 856-4000
TELEFAX: (716) 849-0349
INFORMATION FOR SEQ ID NO: 13 :
SEQUENCE CHARACTERISTICS:
LENGTH: 24 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single-stranded
TOPOLOGY: linear
MOLECULE TYPE: DNA
IMMEDIATE SOURCE: synthesized
ORIGINAL SOURCE:
ORGANISM: Moraxella catarrhalis
STRAIN: 25240
CELL TYPE: Bacterium
US-08-245-758-13

```

```

Query Match 1.1%; Score 18.2; DB 1; Length 24;
Best Local Similarity 87.0%; Pred. No. 1.2e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1144 tcagtcctccaatgactaac 1166
DB 2 TCAGTCCTCCATATNGTAAAC 24

```

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RESULT 2
PCT-US95-05134-13
; Sequence 13, Application PC/TUS9505134

```

GENERAL INFORMATION:

```

APPLICANT: Murphy, Timothy F.
APPLICANT: Bhushan, Reva
TITLE OF INVENTION: Vaccine for Moraxella catarrhalis
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSER: Hodgson, Russ, Andrews, Woods & Goodyear
STREET: 1800 One Mt Plaza
CITY: Buffalo
STATE: New York
COUNTRY: United States
ZIP: 14203-2391
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Kb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS/ Microsoft Windows 3.1
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05134
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Serial No. 08/245,758
FILING DATE: 17/05/94
ATTORNEY/AGENT INFORMATION:
NAME: Nelson, M. Bud
REGISTRATION NUMBER: 35,300
REFERENCE/DOCKET NUMBER: 11520.0063
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 856-4000
TELEFAX: (716) 849-0349
INFORMATION FOR SEQ ID NO: 13 :
SEQUENCE CHARACTERISTICS:
LENGTH: 24 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single-stranded
TOPOLOGY: linear
MOLECULE TYPE: DNA
IMMEDIATE SOURCE: synthesized
ORIGINAL SOURCE:
ORGANISM: Moraxella catarrhalis
STRAIN: 25240
CELL TYPE: bacterium
PCT-US95-05134-13

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```

Query Match 1.1%; Score 18.2; DB 5; Length 24;
Best Local Similarity 87.0%; Pred. No. 1.2e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1144 tcagtcctccaatgactaac 1166
DB 2 TCAGTCCTCCATATNGTAAAC 24

```

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RESULT 3
US-08-856-331-16
; Sequence 16, Application US/08856331
; Patent No. 6077705
; GENERAL INFORMATION:

```

Fri Jul 19 08:31:30 2002

APPLICANT: Duan, Lingxun
APPLICANT: Pomerantz, Roger J.
APPLICANT: Zern, Mark A.
TITLE OF INVENTION: RIBOZYME MEDIATE GENE REPLACEMENT
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 6077705r1s
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/856,331
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,132
FILING DATE: 17-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Deluca, Mark
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: TCU-2207
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: mRNA
US-08-856-331-16

Query Match 1.1%; Score 18.2; DB 3; Length 26;
Best Local Similarity 56.5%; Pred. No. 1.3e+04;
Matches 13; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 962 tctggaatttcaagactta 984
DB 4 UGUGAUUUGUCUACAAGACUUGA 26


RESULT 4
US-08-584-040-756
Sequence 756, Application US/08584040
Patent No. 6346398
GENERAL INFORMATION:
APPLICANT: Pavco, Pamela
APPLICANT: McSwiggen, James
APPLICANT: Stinchcomb, Dan T.
APPLICANT: Escobedo, Jaime
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
NUMBER OF SEQUENCES: 8502
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.

ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Wardburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 756:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
OTHER INFORMATION: The letter "N" represents the stem II region
OTHER INFORMATION: of an HH ribozyme.
US-08-584-040-756

Query Match 1.1%; Score 18.2; DB 4; Length 27;
Best Local Similarity 79.2%; Pred. No. 1.3e+04;
Matches 19; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1436 agtcaaacagagatgaaga 1459
DB 1 AGUCAAAACUGAUGANGAAAAA 24

RESULT 5
US-08-066-325-49/C
Sequence 49, Application US/08066325
Patent No. 5667967
GENERAL INFORMATION:
APPLICANT: Steinman, Lawrence
APPLICANT: Oksenberg, Jorge
APPLICANT: Bernard, Claude
TITLE OF INVENTION: T-CELL RECEPTOR VARIABLE TRANSCRIPTS AS DISEASE RELATED MAR
NUMBER OF SEQUENCES: 157
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/066,325
FILING DATE: 21-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5667967tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 690068.408C1





TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-066-325-49

Query Match 1.1%; Score 18; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.4e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 24 ATGACTGTCTCTTCAT 7

RESULT 6

US-08-646-367-10
Sequence 10, Application US/08646367
Patent No. 5939085
GENERAL INFORMATION:
APPLICANT: Pierre Garrone
APPLICANT: Odile Djossou
APPLICANT: Francois Rossiez
APPLICANT: Jacques Bancheau
TITLE OF INVENTION: Human Monoclonal Antibodies
TITLE OF INVENTION: Against Human Cytokines And
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corporation
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07033
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.5.3
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,367
FILING DATE: May 16, 1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Foulke, Cynthia L.
REGISTRATION NUMBER: 32,364
REFERENCE/DOCKET NUMBER: SF0403K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-298-2987
TELEFAX: 908-298-2987
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-646-367-10

Query Match 1.1%; Score 18; DB 2; Length 34;
Best Local Similarity 70.6%; Pred. No. 1.8e+04;
Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1390 gagaggggagccgaagactcttccactcaactca 1423

Db 1 GAGAGAGCGCGCGCTAACACTCTCCCTCTTGAA 34

RESULT 7

US-08-837-201C-139
Sequence 139, Application US/08837201C
Patent No. 5985558
GENERAL INFORMATION:
APPLICANT: Nicholas M. Dean; Robert A. McKay; Loren J.
APPLICANT: Miraglia; Brenda F. Baker
TITLE OF INVENTION: Antisense Oligonucleotide
TITLE OF INVENTION: Compositions and Methods for the Modulation of
NUMBER OF SEQUENCES: 139
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Jane Massey Licata
STREET: 66 East Main Street
CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM PS/2
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/837,201C
FILING DATE: April 14, 1997
CLASSIFICATION: 514
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: ISPH-0209
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 810-1515
TELEFAX: (609) 810-1454
INFORMATION FOR SEQ ID NO: 139:
SEQUENCE CHARACTERISTICS:
LENGTH: 29
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: No
US-08-837-201C-139

Query Match 1.1%; Score 17.8; DB 2; Length 29;
Best Local Similarity 75.9%; Pred. No. 1.8e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 743 acgggataccggggctggcgaagcaagt 771

Db 1 ACGGGAAGTCGGGCTCCACAGAGAGAGT 29

RESULT 8

US-09-364-416-139
Sequence 139, Application US/09364416
Patent No. 6312900
GENERAL INFORMATION:
APPLICANT: Nicholas M. Dean; Robert A. McKay; Loren J.
APPLICANT: Miraglia; Brenda F. Baker
TITLE OF INVENTION: Antisense Oligonucleotide
TITLE OF INVENTION: Compositions and Methods for the Modulation of
NUMBER OF SEQUENCES: 139
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Jane Massey Licata
STREET: 66 East Main Street

()

```

Insert Length: 798      Std Error: 0.00
Seq primer: M13Rp1
High quality sequence stop: 1.
Location/Qualifiers
1. 28
/organism="Homo sapiens"
/db_xref="GDB:574362"
/db_xref="taxon:9606"
/clone="IMAGE:160337"
/clone_1lb="Soares Breast 3NBHbst"
/sex="Female"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: breast; Vector: pRT73D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGACCAATCTGAAAGGAGCGCGCCCTTTTCTTTTCTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of a modified pRT73 vector (Pharmacia).
Library went through one round of normalization to a Cot -
20. Library constructed by Bento Soares and M.Patima
Bonaldo."

```

RESULT 2
AA469268/c

| RESULT | AA469268/c | 25 bp | mRNA | linear | EST 15-AUG-199 |
|------------|------------------------|-------------|--------------|----------------------|----------------|
| LOCUS | nc869268 | NCT_CGAP_P1 | Homo sapiens | CDNA clone | IMAGE:771724 |
| DEFINITION | similar to SW:R5_HUMAN | P4782 | 40S | RIBOSOMAL PROTEIN S5 | '' mRNA |
| ACCESSION | AA469268 | | | | |
| VERSION | AA469268.1 | | | | GI:2195802 |

KEYWORDS
SOURCE

ORGANISM

REFERENCE

AUTHORS
TITLE

JOURNAL

COMMENT

FEATURES

Source:



/dev-stage="45 years old"
/lab_host="DH10B"
/note="Vector: PAMP10; Site-1: NotI; Site-2: EcoRI; 1st strand cDNA was primed with oligo(dT)17 on 50 ng of DNase-treated, total cellular RNA obtained from 5,000-10,000 microdissected, histologically normal prostate epithelial cells. Double-stranded cDNA was ligated to EcoRI adaptors, 5 cycles of PCR applied to the cDNA with an adaptor-specific primer, and the resulting PCR product subcloned into PAMP10 by the UDG-cloning method (Life Technologies). Average insert size is 600 bp. NOTE: Not directionally cloned. This library was constructed by David Krizman."

BASE COUNT
ORIGIN
7 a 7 c 10 g 1 t

Query Match
Best Local Similarity 1.6%; Score 25; DB 9; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 cgcgtgtcgtcgtcgtccacgcg 43
|||||
Db 25 CGCTGCTGCTGCTGCTCCACTCG 1

RESULT 3
A2799831/c 32 bp DNA linear GSS 16-FEB-2001
LOCUS
DEFINITION 2M0057G03R Mouse 10kb plasmid U06C1M library Mus musculus genomic
ACCESSION A2799831
VERSION A2799831.1 GI:12951342
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
REFERENCE 1 (bases 1 to 32)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinger,A., von Niederhausen,A. and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
CONTACT: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0057 row: G column: 03
Seq primer: CACACAGGAACACACTATGACC
Class: plasmid ends
High quality sequence stop: 32.

FEATURES

SOURCE

1. 32
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UMC2M0057G03"
/clone_lib="Mouse 10kb plasmid U06C1M library"
/sex="male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMP42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473211419b1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN
9 a 9 c 5 g 9 t

Query Match
Best Local Similarity 1.5%; Score 24; DB 12; Length 32;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 602 aaagatcacccagaggtcgtcgt 625
|||||
Db 27 AAAGTATCACAGAGGTCTGTGA 4

RESULT 4
A1021154/c 31 bp mRNA linear EST 16-JUN-1998
LOCUS
DEFINITION ub02c03.i1 Soares_mammary_gland_NBMGc Mus musculus cDNA clone IMAGE:1365796 5' similar to TR:P97461 P97461 RIBOSOMAL PROTEIN S5.
ACCESSION A1021154
VERSION A1021154.1 GI:3235490
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 31)
Marrin,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisler,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
CONTACT: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:899016
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 1.

FEATURES

SOURCE

1. 31
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:1365796"
/clone_lib="Soares_mammary_gland_NBMGc"
/sex="male"
/tissue_type="mammary gland"
/dev-stage="4 weeks"
/lab_host="DH10B"



GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 18, 2002, 22:02:04 ; Search time 2987.21 Seconds
(without alignments)
11285.665 Million cell updates/sec

Title: US-09-817-538-2
Perfect score: 1611
Sequence: 1 atgcctg99gctcctgcccg.....tccctcacgttcttctccc 1611

Scoring table: IDENTITY-NUC
Gapop 10.0 , Gapept 1.0

Searched: 1797656 seqs, 10463268293 residues
tal number of hits satisfying chosen parameters: 553102

Minimum DB seq length: 13
Maximum DB seq length: 35

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Genembl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_pro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_inv:

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
|------------|-------|-------------|--------|-------|-------------|

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| C | 2 | 26 | 1.6 | 26 | AX053089 Sequence |
| C | 3 | 24.4 | 1.5 | 26 | AX053078 Sequence |
| C | 4 | 24.4 | 1.5 | 26 | AX053079 Sequence |
| C | 5 | 24.4 | 1.5 | 26 | AX053087 Sequence |
| C | 6 | 24.4 | 1.5 | 26 | AX053088 Sequence |
| C | 7 | 22.8 | 1.4 | 26 | AX053081 Sequence |
| C | 8 | 22.8 | 1.4 | 26 | AX053090 Sequence |
| C | 9 | 20 | 1.2 | 20 | AX053077 Sequence |
| C | 10 | 20 | 1.2 | 20 | AX053086 Sequence |
| C | 11 | 19.2 | 1.2 | 24 | AX173370 Sequence |
| C | 12 | 19.2 | 1.2 | 34 | AX06907 Sequence |
| C | 13 | 18.4 | 1.1 | 29 | AX166289 Sequence |
| C | 14 | 18.4 | 1.1 | 31 | AX249091 Sequence |
| C | 15 | 18.2 | 1.1 | 24 | AX053077 Sequence |
| C | 16 | 18.2 | 1.1 | 26 | AX099331 Sequence |
| C | 17 | 18 | 1.1 | 24 | AX053077 Sequence |
| C | 18 | 18 | 1.1 | 24 | AX053077 Sequence |
| C | 19 | 18 | 1.1 | 34 | AX053077 Sequence |
| C | 20 | 18 | 1.1 | 34 | AX053077 Sequence |
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| C | 22 | 17.8 | 1.1 | 34 | AX053077 Sequence |
| C | 23 | 17.8 | 1.1 | 29 | AX053077 Sequence |
| C | 24 | 17.8 | 1.1 | 29 | AX053077 Sequence |
| C | 25 | 17.8 | 1.1 | 32 | AX053077 Sequence |
| C | 26 | 17.8 | 1.1 | 32 | AX053077 Sequence |
| C | 27 | 17.6 | 1.1 | 34 | AX053077 Sequence |
| C | 28 | 17.6 | 1.1 | 34 | AX053077 Sequence |
| C | 29 | 17.6 | 1.1 | 34 | AX053077 Sequence |
| C | 30 | 17.4 | 1.1 | 29 | AX053077 Sequence |
| C | 31 | 17.4 | 1.1 | 30 | AX053077 Sequence |
| C | 32 | 17.4 | 1.1 | 30 | AX053077 Sequence |
| C | 33 | 17.4 | 1.1 | 30 | AX053077 Sequence |
| C | 34 | 17.4 | 1.1 | 30 | AX053077 Sequence |
| C | 35 | 17.4 | 1.1 | 31 | AX053077 Sequence |
| C | 36 | 17.4 | 1.1 | 35 | AX053077 Sequence |
| C | 37 | 17.4 | 1.1 | 35 | AX053077 Sequence |
| C | 38 | 17.2 | 1.1 | 22 | AX053077 Sequence |
| C | 39 | 17.2 | 1.1 | 23 | AX053077 Sequence |
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| C | 42 | 17.2 | 1.1 | 23 | AX053077 Sequence |
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| C | 50 | 17.2 | 1.1 | 24 | AX053077 Sequence |
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| C | 61 | 17 | 1.1 | 33 | AX053077 Sequence |
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| C | 63 | 17 | 1.1 | 34 | AX053077 Sequence |
| C | 64 | 17 | 1.1 | 34 | AX053077 Sequence |
| C | 65 | 16.8 | 1.0 | 30 | AX053077 Sequence |
| C | 66 | 16.8 | 1.0 | 30 | AX053077 Sequence |
| C | 67 | 16.8 | 1.0 | 30 | AX053077 Sequence |
| C | 68 | 16.8 | 1.0 | 30 | AX053077 Sequence |
| C | 69 | 16.8 | 1.0 | 30 | AX053077 Sequence |
| C | 70 | 16.8 | 1.0 | 31 | AX053077 Sequence |
| C | 71 | 16.8 | 1.0 | 31 | AX053077 Sequence |
| C | 72 | 16.8 | 1.0 | 33 | AX053077 Sequence |
| C | 73 | 16.8 | 1.0 | 33 | AX053077 Sequence |

| | | | | | | | | | | | | | |
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| 74 | 16.8 | 1.0 | 34 | 6 | ARI69350 | ARI69350 Sequence | 147 | 16 | 1.0 | 24 | 6 | A17164 | A17164 Oligonucleo |
| 75 | 16.8 | 1.0 | 35 | 11 | C75700 | C75700 Homo sapien | 148 | 16 | 1.0 | 25 | 6 | AR027547 | AR027547 Sequence |
| 76 | 16.6 | 1.0 | 25 | 6 | A17152 | A17152 Oligonucleo | 149 | 16 | 1.0 | 24 | 6 | AR026625 | AR026625 Sequence |
| 77 | 16.6 | 1.0 | 25 | 6 | AR027535 | AR027535 Sequence | 150 | 16 | 1.0 | 25 | 6 | AR076207 | AR076207 Sequence |
| 78 | 16.6 | 1.0 | 31 | 6 | A52892 | A52892 Sequence 8 | 151 | 16 | 1.0 | 25 | 6 | AR106092 | AR106092 Sequence |
| 79 | 16.6 | 1.0 | 31 | 6 | AX149522 | AX149522 Sequence | 152 | 16 | 1.0 | 25 | 6 | AR166153 | AR166153 Sequence |
| 80 | 16.6 | 1.0 | 31 | 6 | AX149535 | AX149535 Sequence | 153 | 16 | 1.0 | 25 | 6 | AX164273 | AX164273 Sequence |
| 81 | 16.6 | 1.0 | 31 | 6 | AX248346 | AX248346 Sequence | 154 | 16 | 1.0 | 25 | 6 | I39819 | I39819 Sequence 9 |
| 82 | 16.6 | 1.0 | 31 | 6 | AX274019 | AX274019 Sequence | 155 | 16 | 1.0 | 26 | 6 | ARI18877 | ARI18877 Sequence |
| 83 | 16.6 | 1.0 | 31 | 6 | I37259 | I37259 Sequence 27 | 156 | 16 | 1.0 | 26 | 23 | E11019 | E11019 DNA fragmen |
| 84 | 16.6 | 1.0 | 31 | 6 | I37260 | I37260 Sequence 27 | 157 | 16 | 1.0 | 27 | 6 | A22450 | A22450 JH reporter |
| 85 | 16.6 | 1.0 | 31 | 6 | I94109 | I94109 Sequence 27 | 158 | 16 | 1.0 | 27 | 6 | AX342498 | AX342498 Sequence |
| 86 | 16.6 | 1.0 | 31 | 6 | I94110 | I94110 Sequence 27 | 159 | 16 | 1.0 | 29 | 6 | I69345 | I69345 Sequence 17 |
| 87 | 16.6 | 1.0 | 32 | 6 | E31602 | E31602 Right Junct | 160 | 16 | 1.0 | 30 | 6 | I32404 | I32404 Sequence 1 |
| 88 | 16.6 | 1.0 | 33 | 6 | ARI49282 | ARI49282 Sequence | 161 | 16 | 1.0 | 30 | 6 | I36149 | I36149 Sequence 33 |
| 89 | 16.6 | 1.0 | 34 | 6 | A58432 | A58432 Sequence 12 | 162 | 16 | 1.0 | 30 | 23 | E09800 | E09800 Mutation pr |
| 90 | 16.6 | 1.0 | 34 | 6 | ARI17898 | ARI17898 Sequence | 163 | 16 | 1.0 | 31 | 6 | AX248882 | AX248882 Sequence |
| 91 | 16.6 | 1.0 | 34 | 6 | ARI56894 | ARI56894 Sequence | 164 | 16 | 1.0 | 31 | 6 | AX248906 | AX248906 Sequence |
| 92 | 16.6 | 1.0 | 35 | 6 | E15077 | E15077 Primer. 7/1 | 165 | 16 | 1.0 | 32 | 6 | A61441 | A61441 Sequence 10 |
| 93 | 16.6 | 1.0 | 35 | 6 | E15093 | E15093 Primer. 7/1 | 166 | 16 | 1.0 | 32 | 6 | AX236615 | AX236615 Sequence |
| 94 | 16.6 | 1.0 | 35 | 11 | C75919 | C75919 Homo sapien | 167 | 16 | 1.0 | 33 | 6 | A19273 | A19273 Oligonucleo |
| 95 | 16.4 | 1.0 | 20 | 6 | AR029137 | AR029137 Sequence | 168 | 16 | 1.0 | 33 | 6 | A45279 | A45279 Sequence 10 |
| 96 | 16.4 | 1.0 | 20 | 6 | AR036521 | AR036521 Sequence | 169 | 16 | 1.0 | 33 | 6 | AR067723 | AR067723 Sequence |
| 97 | 16.4 | 1.0 | 20 | 6 | AR073858 | AR073858 Sequence | 170 | 16 | 1.0 | 33 | 6 | AR079918 | AR079918 Sequence |
| 98 | 16.4 | 1.0 | 20 | 6 | AR096054 | AR096054 Sequence | 171 | 16 | 1.0 | 33 | 6 | AR083857 | AR083857 Sequence |
| 99 | 16.4 | 1.0 | 20 | 6 | ARI05513 | ARI05513 Sequence | 172 | 16 | 1.0 | 33 | 6 | ARI16259 | ARI16259 Sequence |
| 100 | 16.4 | 1.0 | 20 | 6 | E49537 | E49537 Antisense o | 173 | 16 | 1.0 | 33 | 6 | AX069509 | AX069509 Sequence |
| 101 | 16.4 | 1.0 | 20 | 6 | I27257 | I27257 Sequence 27 | 174 | 16 | 1.0 | 33 | 6 | AX069510 | AX069510 Sequence |
| 102 | 16.4 | 1.0 | 28 | 6 | AX080510 | AX080510 Sequence | 175 | 16 | 1.0 | 33 | 6 | AX164789 | AX164789 Sequence |
| 103 | 16.4 | 1.0 | 29 | 6 | E25839 | E25839 Novel enzym | 176 | 16 | 1.0 | 33 | 6 | I13251 | I13251 Sequence 11 |
| 104 | 16.4 | 1.0 | 30 | 6 | AR027444 | AR027444 Sequence | 177 | 16 | 1.0 | 33 | 6 | I17559 | I17559 Sequence 22 |
| 105 | 16.4 | 1.0 | 30 | 6 | AX085454 | AX085454 Sequence | 178 | 16 | 1.0 | 34 | 6 | AR092785 | AR092785 Sequence |
| 106 | 16.4 | 1.0 | 30 | 6 | E65084 | E65084 Method for | 179 | 16 | 1.0 | 35 | 6 | ARI05655 | ARI05655 Sequence |
| 107 | 16.4 | 1.0 | 31 | 6 | AX223432 | AX223432 Sequence | 180 | 16 | 1.0 | 35 | 6 | ARI10613 | ARI10613 Sequence |
| 108 | 16.4 | 1.0 | 31 | 6 | AX248870 | AX248870 Sequence | 181 | 16 | 1.0 | 35 | 6 | ARI142874 | ARI142874 Sequence |
| 109 | 16.4 | 1.0 | 31 | 6 | I37255 | I37255 Sequence 26 | 182 | 16 | 1.0 | 35 | 6 | ARI42874 | ARI42874 Sequence |
| 110 | 16.4 | 1.0 | 31 | 6 | I37256 | I37256 Sequence 26 | 183 | 16 | 1.0 | 35 | 6 | ARI67357 | ARI67357 Sequence |
| 111 | 16.4 | 1.0 | 31 | 6 | I37257 | I37257 Sequence 27 | 184 | 16 | 1.0 | 35 | 6 | AX057954 | AX057954 Sequence |
| 112 | 16.4 | 1.0 | 31 | 6 | I37258 | I37258 Sequence 27 | 185 | 16 | 1.0 | 35 | 6 | I28751 | I28751 Sequence 10 |
| 113 | 16.4 | 1.0 | 31 | 6 | I94105 | I94105 Sequence 26 | 186 | 16 | 1.0 | 35 | 6 | I50657 | I50657 Sequence 10 |
| 114 | 16.4 | 1.0 | 31 | 6 | I94106 | I94106 Sequence 26 | 187 | 16 | 1.0 | 35 | 6 | I67644 | I67644 Sequence 10 |
| 115 | 16.4 | 1.0 | 31 | 6 | I94107 | I94107 Sequence 27 | 188 | 16 | 1.0 | 35 | 6 | I71138 | I71138 Sequence 10 |
| 116 | 16.4 | 1.0 | 31 | 6 | I94108 | I94108 Sequence 27 | 189 | 16 | 1.0 | 35 | 11 | C75700 | C75700 Homo sapien |
| 117 | 16.4 | 1.0 | 32 | 6 | AR083551 | AR083551 Sequence | 190 | 15.8 | 1.0 | 20 | 6 | I57054 | I57054 Sequence 35 |
| 118 | 16.4 | 1.0 | 33 | 6 | I11459 | I11459 Sequence 13 | 191 | 15.8 | 1.0 | 21 | 6 | A58221 | A58221 Sequence 53 |
| 119 | 16.4 | 1.0 | 33 | 6 | I15416 | I15416 Sequence 16 | 192 | 15.8 | 1.0 | 21 | 6 | E58223 | E58223 Sequence 53 |
| 120 | 16.4 | 1.0 | 34 | 6 | AX044127 | AX044127 Sequence | 193 | 15.8 | 1.0 | 22 | 6 | E38880 | E38880 Chimeric an |
| 121 | 16.4 | 1.0 | 34 | 6 | AX068186 | AX068186 Sequence | 194 | 15.8 | 1.0 | 22 | 6 | AX004362 | AX004362 Sequence |
| 122 | 16.4 | 1.0 | 35 | 6 | A09922 | A09922 Probe. 1/19 | 195 | 15.8 | 1.0 | 28 | 6 | AX021781 | AX021781 Sequence |
| 123 | 16.4 | 1.0 | 35 | 6 | AR075179 | AR075179 Sequence | 196 | 15.8 | 1.0 | 28 | 6 | I77069 | I77069 Sequence 11 |
| 124 | 16.4 | 1.0 | 35 | 6 | AR075181 | AR075181 Sequence | 197 | 15.8 | 1.0 | 29 | 6 | AX044253 | AX044253 Sequence |
| 125 | 16.4 | 1.0 | 35 | 6 | ARI12346 | ARI12346 Sequence | 198 | 15.8 | 1.0 | 29 | 6 | AX044318 | AX044318 Sequence |
| 126 | 16.4 | 1.0 | 35 | 6 | ARI12348 | ARI12348 Sequence | 199 | 15.8 | 1.0 | 29 | 6 | AX301743 | AX301743 Sequence |
| 127 | 16.4 | 1.0 | 35 | 6 | I87872 | I87872 Sequence 6 | 200 | 15.8 | 1.0 | 29 | 6 | AX316339 | AX316339 Sequence |
| 128 | 16.4 | 1.0 | 35 | 6 | I87874 | I87874 Sequence 8 | 201 | 15.8 | 1.0 | 30 | 6 | A38240 | A38240 Sequence 4 |
| 129 | 16.2 | 1.0 | 25 | 6 | E58889 | E58889 Disease-res | 202 | 15.8 | 1.0 | 30 | 6 | I84404 | I84404 Sequence 5 |
| 130 | 16.2 | 1.0 | 30 | 6 | A38237 | A38237 Sequence 1 | 203 | 15.8 | 1.0 | 31 | 6 | AR073286 | AR073286 Sequence |
| 131 | 16.2 | 1.0 | 30 | 6 | A46145 | A46145 Sequence 40 | 204 | 15.8 | 1.0 | 31 | 6 | AX002748 | AX002748 Sequence |
| 132 | 16.2 | 1.0 | 30 | 6 | AR008317 | AR008317 Sequence | 205 | 15.8 | 1.0 | 31 | 6 | AX002756 | AX002756 Sequence |
| 133 | 16.2 | 1.0 | 30 | 6 | AR037307 | AR037307 Sequence | 206 | 15.8 | 1.0 | 31 | 6 | AX002764 | AX002764 Sequence |
| 134 | 16.2 | 1.0 | 30 | 6 | AR052177 | AR052177 Sequence | 207 | 15.8 | 1.0 | 31 | 6 | AX248087 | AX248087 Sequence |
| 135 | 16.2 | 1.0 | 31 | 6 | ARI53887 | ARI53887 Sequence | 208 | 15.8 | 1.0 | 31 | 6 | AX248522 | AX248522 Sequence |
| 136 | 16.2 | 1.0 | 31 | 6 | AX221396 | AX221396 Sequence | 209 | 15.8 | 1.0 | 31 | 6 | AX249387 | AX249387 Sequence |
| 137 | 16.2 | 1.0 | 31 | 6 | AX229182 | AX229182 Sequence | 210 | 15.8 | 1.0 | 31 | 6 | BD002459 | BD002459 Gene comp |
| 138 | 16.2 | 1.0 | 31 | 6 | AX248251 | AX248251 Sequence | 211 | 15.8 | 1.0 | 31 | 6 | E13860 | E13860 PCR primer |
| 139 | 16.2 | 1.0 | 32 | 6 | AX073423 | AX073423 Sequence | 212 | 15.8 | 1.0 | 31 | 6 | I16018 | I16018 Sequence 21 |
| 140 | 16.2 | 1.0 | 34 | 6 | A28091 | A28091 Human GABRA | 213 | 15.8 | 1.0 | 32 | 6 | A33260 | A33260 Synthetic I |
| 141 | 16.2 | 1.0 | 34 | 6 | A39288 | A39288 Sequence 13 | 214 | 15.8 | 1.0 | 32 | 6 | AR002289 | AR002289 Sequence |
| 142 | 16.2 | 1.0 | 34 | 6 | AR009824 | AR009824 Sequence | 215 | 15.8 | 1.0 | 32 | 6 | AR049417 | AR049417 Sequence |
| 143 | 16.2 | 1.0 | 34 | 6 | AR091705 | AR091705 Sequence | 216 | 15.8 | 1.0 | 32 | 6 | AR053140 | AR053140 Sequence |
| 144 | 16.2 | 1.0 | 34 | 6 | I88869 | I88869 Sequence 3 | 217 | 15.8 | 1.0 | 32 | 6 | AX268794 | AX268794 Sequence |
| 145 | 16.2 | 1.0 | 35 | 6 | ARI71498 | ARI71498 Sequence | 218 | 15.8 | 1.0 | 32 | 6 | AX349930 | AX349930 Sequence |
| 146 | 16.2 | 1.0 | 35 | 6 | BD005518 | BD005518 Compositi | 219 | 15.8 | 1.0 | 32 | 6 | E31298 | E31298 Monoclonal |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|----------|-------------|-------|------|-----|----|---|----------|--------------------|
| C 220 | 15.8 | 1.0 | 32 | 6 | I86669 | Sequence 9 | C 293 | 15.4 | 1.0 | 21 | 6 | AX027265 | AX027265 Sequence |
| C 221 | 15.8 | 1.0 | 33 | 6 | A61421 | Sequence 15 | C 294 | 15.4 | 1.0 | 22 | 6 | I55062 | I55062 Sequence 17 |
| C 222 | 15.8 | 1.0 | 33 | 6 | AR118653 | Sequence | C 295 | 15.4 | 1.0 | 23 | 6 | AX135679 | AX135679 Sequence |
| C 223 | 15.8 | 1.0 | 33 | 6 | AX036614 | Sequence | C 296 | 15.4 | 1.0 | 25 | 6 | AR083375 | AR083375 Sequence |
| C 224 | 15.8 | 1.0 | 33 | 6 | I17558 | Sequence 21 | C 297 | 15.4 | 1.0 | 25 | 6 | AR161597 | AR161597 Sequence |
| C 225 | 15.8 | 1.0 | 34 | 6 | AR120504 | Sequence | C 298 | 15.4 | 1.0 | 25 | 6 | AX042638 | AX042638 Sequence |
| C 226 | 15.8 | 1.0 | 34 | 6 | AX280533 | Sequence | C 299 | 15.4 | 1.0 | 25 | 6 | AX043231 | AX043231 Sequence |
| C 227 | 15.8 | 1.0 | 34 | 6 | AX280717 | Sequence | C 300 | 15.4 | 1.0 | 25 | 6 | AX043480 | AX043480 Sequence |
| C 228 | 15.8 | 1.0 | 34 | 23 | E09942 | PCR primer | C 301 | 15.4 | 1.0 | 25 | 6 | AX089580 | AX089580 Sequence |
| C 229 | 15.8 | 1.0 | 35 | 6 | A38055 | Sequence 2 | C 302 | 15.4 | 1.0 | 25 | 6 | AX115736 | AX115736 Sequence |
| C 230 | 15.8 | 1.0 | 35 | 6 | AR040573 | Sequence | C 303 | 15.4 | 1.0 | 25 | 6 | AX197076 | AX197076 Sequence |
| C 231 | 15.8 | 1.0 | 35 | 6 | AR055597 | Sequence | C 304 | 15.4 | 1.0 | 26 | 6 | A31739 | A31739 Sequence |
| C 232 | 15.8 | 1.0 | 35 | 6 | E04874 | Synthetic D | C 305 | 15.4 | 1.0 | 26 | 6 | A50062 | A50062 Sequence 14 |
| C 233 | 15.6 | 1.0 | 35 | 6 | I66604 | Sequence 2 | C 306 | 15.4 | 1.0 | 26 | 6 | A50096 | A50096 Sequence 48 |
| C 234 | 15.6 | 1.0 | 22 | 6 | I66607 | Sequence 5 | C 307 | 15.4 | 1.0 | 26 | 6 | AR083359 | AR083359 Sequence |
| C 235 | 15.6 | 1.0 | 24 | 6 | AX110824 | Sequence | C 308 | 15.4 | 1.0 | 26 | 6 | AR091082 | AR091082 Sequence |
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| C 237 | 15.6 | 1.0 | 24 | 6 | AX224457 | Sequence | C 310 | 15.4 | 1.0 | 27 | 6 | A63579 | A63579 Sequence 20 |
| C 238 | 15.6 | 1.0 | 25 | 6 | AX338224 | Sequence | C 311 | 15.4 | 1.0 | 27 | 6 | AR151485 | AR151485 Sequence |
| C 239 | 15.6 | 1.0 | 26 | 6 | AR026160 | Sequence | C 312 | 15.4 | 1.0 | 27 | 6 | AX254725 | AX254725 Sequence |
| C 240 | 15.6 | 1.0 | 26 | 6 | AR026212 | Sequence | C 313 | 15.4 | 1.0 | 27 | 6 | AX255075 | AX255075 Sequence |
| C 241 | 15.6 | 1.0 | 26 | 6 | AR026226 | Sequence | C 314 | 15.4 | 1.0 | 27 | 6 | E16078 | E16078 Target DNA |
| C 242 | 15.6 | 1.0 | 26 | 6 | AR026240 | Sequence | C 315 | 15.4 | 1.0 | 27 | 6 | E39975 | E39975 Novel prote |
| C 243 | 15.6 | 1.0 | 26 | 6 | AR090354 | Sequence | C 316 | 15.4 | 1.0 | 27 | 6 | I20720 | I20720 Sequence 33 |
| C 244 | 15.6 | 1.0 | 26 | 6 | E61336 | Probe for d | C 317 | 15.4 | 1.0 | 28 | 6 | AR073774 | AR073774 Sequence |
| C 245 | 15.6 | 1.0 | 26 | 6 | I82902 | Sequence 4 | C 318 | 15.4 | 1.0 | 28 | 6 | AR076900 | AR076900 Sequence |
| C 246 | 15.6 | 1.0 | 26 | 6 | I82954 | Sequence 56 | C 319 | 15.4 | 1.0 | 28 | 6 | AR167291 | AR167291 Sequence |
| C 247 | 15.6 | 1.0 | 26 | 6 | I82968 | Sequence 70 | C 320 | 15.4 | 1.0 | 28 | 6 | AX034684 | AX034684 Sequence |
| C 248 | 15.6 | 1.0 | 26 | 6 | I82982 | Sequence 84 | C 321 | 15.4 | 1.0 | 28 | 6 | AX147406 | AX147406 Sequence |
| C 249 | 15.6 | 1.0 | 28 | 6 | AR170060 | Sequence | C 322 | 15.4 | 1.0 | 29 | 6 | A06603 | A06603 Oligonucleo |
| C 250 | 15.6 | 1.0 | 28 | 6 | AR170061 | Sequence | C 323 | 15.4 | 1.0 | 29 | 6 | AR101072 | AR101072 Sequence |
| C 251 | 15.6 | 1.0 | 29 | 6 | AR142232 | Sequence | C 324 | 15.4 | 1.0 | 29 | 6 | AR138086 | AR138086 Sequence |
| C 252 | 15.6 | 1.0 | 29 | 6 | I34493 | Sequence 2 | C 325 | 15.4 | 1.0 | 29 | 6 | I68307 | I68307 Sequence 3 |
| C 253 | 15.6 | 1.0 | 29 | 6 | I57328 | Sequence 2 | C 326 | 15.4 | 1.0 | 29 | 6 | I77045 | I77045 Sequence 5 |
| C 254 | 15.6 | 1.0 | 29 | 6 | I64493 | Sequence 7 | C 327 | 15.4 | 1.0 | 30 | 6 | A77054 | A77054 Sequence 6 |
| C 255 | 15.6 | 1.0 | 30 | 6 | I73206 | Sequence 2 | C 328 | 15.4 | 1.0 | 30 | 6 | A77055 | A77055 Sequence 5 |
| C 256 | 15.6 | 1.0 | 30 | 6 | AR098219 | Sequence | C 329 | 15.4 | 1.0 | 30 | 6 | AR028286 | AR028286 Sequence |
| C 257 | 15.6 | 1.0 | 30 | 6 | I11752 | Sequence 39 | C 330 | 15.4 | 1.0 | 30 | 6 | AR069357 | AR069357 Sequence |
| C 258 | 15.6 | 1.0 | 30 | 6 | I19423 | Sequence 39 | C 331 | 15.4 | 1.0 | 30 | 6 | AR055249 | AR055249 Sequence |
| C 259 | 15.6 | 1.0 | 31 | 6 | AR072904 | Sequence | C 332 | 15.4 | 1.0 | 30 | 6 | AR098126 | AR098126 Sequence |
| C 260 | 15.6 | 1.0 | 31 | 6 | AR073092 | Sequence | C 333 | 15.4 | 1.0 | 30 | 6 | AR109712 | AR109712 Sequence |
| C 261 | 15.6 | 1.0 | 31 | 6 | AR136724 | Sequence | C 334 | 15.4 | 1.0 | 30 | 6 | AR109715 | AR109715 Sequence |
| C 262 | 15.6 | 1.0 | 31 | 6 | AX221158 | Sequence | C 335 | 15.4 | 1.0 | 30 | 6 | AR125216 | AR125216 Sequence |
| C 263 | 15.6 | 1.0 | 31 | 6 | AX248608 | Sequence | C 336 | 15.4 | 1.0 | 30 | 6 | AR138689 | AR138689 Sequence |
| C 264 | 15.6 | 1.0 | 31 | 6 | I05972 | Sequence 43 | C 337 | 15.4 | 1.0 | 30 | 6 | AX138861 | AX138861 Sequence |
| C 265 | 15.6 | 1.0 | 31 | 6 | I37261 | Sequence 27 | C 338 | 15.4 | 1.0 | 30 | 6 | AX349550 | AX349550 Sequence |
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| C 267 | 15.6 | 1.0 | 32 | 6 | A97459 | Sequence 15 | C 340 | 15.4 | 1.0 | 30 | 6 | I64574 | I64574 Sequence 22 |
| C 268 | 15.6 | 1.0 | 32 | 6 | AR009578 | Sequence | C 341 | 15.4 | 1.0 | 30 | 6 | I92708 | I92708 Sequence 22 |
| C 269 | 15.6 | 1.0 | 32 | 6 | AR119808 | Sequence | C 342 | 15.4 | 1.0 | 31 | 6 | AR176261 | AR176261 Sequence |
| C 270 | 15.6 | 1.0 | 32 | 6 | AR119809 | Sequence | C 343 | 15.4 | 1.0 | 31 | 6 | AX003174 | AX003174 Sequence |
| C 271 | 15.6 | 1.0 | 32 | 6 | AX021819 | Sequence | C 344 | 15.4 | 1.0 | 31 | 6 | AX100920 | AX100920 Sequence |
| C 272 | 15.6 | 1.0 | 32 | 6 | AX021820 | Sequence | C 345 | 15.4 | 1.0 | 31 | 6 | AX248859 | AX248859 Sequence |
| C 273 | 15.6 | 1.0 | 32 | 6 | AX137155 | Sequence | C 346 | 15.4 | 1.0 | 31 | 6 | AX248860 | AX248860 Sequence |
| C 274 | 15.6 | 1.0 | 32 | 6 | AX137156 | Sequence | C 347 | 15.4 | 1.0 | 31 | 6 | AX249436 | AX249436 Sequence |
| C 275 | 15.6 | 1.0 | 32 | 6 | E50870 | Gene inhibi | C 348 | 15.4 | 1.0 | 31 | 6 | AX280404 | AX280404 Sequence |
| C 276 | 15.6 | 1.0 | 32 | 6 | I62819 | Sequence 22 | C 349 | 15.4 | 1.0 | 31 | 6 | AX280647 | AX280647 Sequence |
| C 277 | 15.6 | 1.0 | 33 | 6 | A61171 | Sequence 8 | C 350 | 15.4 | 1.0 | 31 | 6 | AX280648 | AX280648 Sequence |
| C 278 | 15.6 | 1.0 | 33 | 6 | A64437 | Sequence 8 | C 351 | 15.4 | 1.0 | 31 | 6 | BD002719 | BD002719 Gene comp |
| C 279 | 15.6 | 1.0 | 33 | 6 | AR147224 | Sequence | C 352 | 15.4 | 1.0 | 31 | 6 | I05149 | I05149 Sequence 6 |
| C 280 | 15.6 | 1.0 | 33 | 6 | AX135016 | Sequence | C 353 | 15.4 | 1.0 | 32 | 6 | A32998 | A32998 Synthetic P |
| C 281 | 15.6 | 1.0 | 33 | 6 | AX137628 | Sequence | C 354 | 15.4 | 1.0 | 32 | 6 | AX002034 | AX002034 Sequence |
| C 282 | 15.6 | 1.0 | 33 | 6 | AX137853 | Sequence | C 355 | 15.4 | 1.0 | 32 | 6 | AX151752 | AX151752 Sequence |
| C 283 | 15.6 | 1.0 | 33 | 6 | AX137853 | Sequence | C 356 | 15.4 | 1.0 | 32 | 6 | A48177 | A48177 Sequence 10 |
| C 284 | 15.6 | 1.0 | 33 | 6 | AX286298 | Sequence | C 357 | 15.4 | 1.0 | 33 | 6 | AR050771 | AR050771 Sequence |
| C 285 | 15.6 | 1.0 | 33 | 6 | E04841 | Synthetic D | C 358 | 15.4 | 1.0 | 33 | 6 | AR060455 | AR060455 Sequence |
| C 286 | 15.6 | 1.0 | 34 | 6 | A008801 | Nucleotide | C 359 | 15.4 | 1.0 | 33 | 6 | AR062216 | AR062216 Sequence |
| C 287 | 15.6 | 1.0 | 34 | 6 | AR041016 | Sequence | C 360 | 15.4 | 1.0 | 33 | 6 | AR127217 | AR127217 Sequence |
| C 288 | 15.6 | 1.0 | 34 | 6 | AR041059 | Sequence | C 361 | 15.4 | 1.0 | 33 | 6 | AR151486 | AR151486 Sequence |
| C 289 | 15.6 | 1.0 | 35 | 6 | I45648 | Sequence 7 | C 362 | 15.4 | 1.0 | 33 | 6 | AX024788 | AX024788 Sequence |
| C 290 | 15.4 | 1.0 | 20 | 6 | AX092827 | Sequence | C 363 | 15.4 | 1.0 | 33 | 6 | AX024912 | AX024912 Sequence |
| C 291 | 15.4 | 1.0 | 20 | 6 | AX203404 | Sequence | C 364 | 15.4 | 1.0 | 33 | 6 | AX026629 | AX026629 Sequence |
| C 292 | 15.4 | 1.0 | 20 | 6 | AX286754 | Sequence | C 365 | 15.4 | 1.0 | 33 | 6 | | |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|-----------|--------------------|-------|------|-----|----|----|----------|--------------------|
| C 366 | 15.4 | 1.0 | 33 | 6 | AX034903 | AX034903 Sequence | C 439 | 15.2 | 0.9 | 31 | 6 | E28887 | E28887 Plant promo |
| C 367 | 15.4 | 1.0 | 33 | 6 | AX046990 | AX046990 Sequence | 440 | 15.2 | 0.9 | 31 | 12 | AX028052 | AX028052 Sequence |
| C 368 | 15.4 | 1.0 | 33 | 6 | BD003245 | BD003245 P-Selecti | 441 | 15.2 | 0.9 | 31 | 12 | SYN327P1 | K02564 Plasmid pBR |
| C 369 | 15.4 | 1.0 | 33 | 12 | AX024922 | AX024922 Sequence | 442 | 15.2 | 0.9 | 32 | 6 | AR108040 | AR108040 Sequence |
| C 370 | 15.4 | 1.0 | 33 | 12 | AX026639 | AX026639 Sequence | 443 | 15.2 | 0.9 | 32 | 6 | AX024596 | AX024596 Sequence |
| C 371 | 15.4 | 1.0 | 34 | 6 | AR003493 | AR003493 Sequence | 444 | 15.2 | 0.9 | 32 | 6 | AX024596 | AX024596 Sequence |
| C 372 | 15.4 | 1.0 | 34 | 6 | AR098656 | AR098656 Sequence | 445 | 15.2 | 0.9 | 32 | 6 | AX030699 | AX030699 Sequence |
| C 373 | 15.4 | 1.0 | 34 | 6 | AR098656 | AR098656 Sequence | 446 | 15.2 | 0.9 | 32 | 6 | AX184049 | AX184049 Sequence |
| C 374 | 15.4 | 1.0 | 34 | 6 | AX107612 | AX107612 Sequence | 447 | 15.2 | 0.9 | 32 | 6 | AX280390 | AX280390 Sequence |
| C 375 | 15.4 | 1.0 | 34 | 6 | E23269 | E23269 Anti-HBS mo | 448 | 15.2 | 0.9 | 32 | 6 | AX280392 | AX280392 Sequence |
| C 376 | 15.4 | 1.0 | 35 | 6 | AR151224 | AR151224 Sequence | 449 | 15.2 | 0.9 | 32 | 6 | AX280394 | AX280394 Sequence |
| C 377 | 15.4 | 1.0 | 35 | 6 | AX052997 | AX052997 Sequence | 450 | 15.2 | 0.9 | 32 | 6 | AX280396 | AX280396 Sequence |
| C 378 | 15.4 | 1.0 | 35 | 6 | I76276 | I76276 Sequence 11 | 451 | 15.2 | 0.9 | 32 | 6 | AX280398 | AX280398 Sequence |
| C 379 | 15.2 | 0.9 | 20 | 6 | AR148552 | AR148552 Sequence | 452 | 15.2 | 0.9 | 32 | 6 | AX280566 | AX280566 Sequence |
| C 380 | 15.2 | 0.9 | 20 | 6 | AR163787 | AR163787 Sequence | 453 | 15.2 | 0.9 | 32 | 6 | AX280567 | AX280567 Sequence |
| C 381 | 15.2 | 0.9 | 20 | 6 | AX226204 | AX226204 Sequence | 454 | 15.2 | 0.9 | 32 | 6 | AX288179 | AX288179 Sequence |
| C 382 | 15.2 | 0.9 | 20 | 12 | AB066427 | AB066427 Synthetic | 455 | 15.2 | 0.9 | 32 | 6 | AX288190 | AX288190 Sequence |
| C 383 | 15.2 | 0.9 | 21 | 6 | A57582 | A57582 Sequence 74 | 456 | 15.2 | 0.9 | 32 | 6 | AX348492 | AX348492 Sequence |
| C 384 | 15.2 | 0.9 | 21 | 6 | AR124239 | AR124239 Sequence | 457 | 15.2 | 0.9 | 32 | 6 | E27279 | E27279 Method for |
| C 385 | 15.2 | 0.9 | 21 | 6 | AX060429 | AX060429 Sequence | 458 | 15.2 | 0.9 | 32 | 6 | I30310 | I30310 Sequence 2 |
| C 386 | 15.2 | 0.9 | 21 | 6 | I27417 | I27417 Sequence 53 | 459 | 15.2 | 0.9 | 33 | 6 | AR002495 | AR002495 Sequence |
| C 387 | 15.2 | 0.9 | 21 | 6 | I27450 | I27450 Sequence 86 | 460 | 15.2 | 0.9 | 33 | 6 | AR003390 | AR003390 Sequence |
| C 388 | 15.2 | 0.9 | 22 | 6 | AR052998 | AR052998 Sequence | 461 | 15.2 | 0.9 | 33 | 6 | AR038154 | AR038154 Sequence |
| C 389 | 15.2 | 0.9 | 22 | 6 | AR170065 | AR170065 Sequence | 462 | 15.2 | 0.9 | 33 | 6 | AR094117 | AR094117 Sequence |
| C 390 | 15.2 | 0.9 | 22 | 6 | AR170066 | AR170066 Sequence | 463 | 15.2 | 0.9 | 33 | 6 | AR095931 | AR095931 Sequence |
| C 391 | 15.2 | 0.9 | 23 | 6 | AR0241 | AR0241 Sequence 7 | 464 | 15.2 | 0.9 | 33 | 6 | AR152543 | AR152543 Sequence |
| C 392 | 15.2 | 0.9 | 23 | 6 | AR088585 | AR088585 Sequence | 465 | 15.2 | 0.9 | 33 | 6 | AX056753 | AX056753 Sequence |
| C 393 | 15.2 | 0.9 | 24 | 6 | AR100796 | AR100796 Sequence | 466 | 15.2 | 0.9 | 33 | 6 | AX166286 | AX166286 Sequence |
| C 394 | 15.2 | 0.9 | 24 | 6 | AX036399 | AX036399 Sequence | 467 | 15.2 | 0.9 | 33 | 6 | E36416 | E36416 dna G. 2/20 |
| C 395 | 15.2 | 0.9 | 24 | 6 | AX036428 | AX036428 Sequence | 468 | 15.2 | 0.9 | 33 | 6 | I21179 | I21179 Sequence 25 |
| C 396 | 15.2 | 0.9 | 24 | 6 | AX164647 | AX164647 Sequence | 469 | 15.2 | 0.9 | 33 | 6 | I74446 | I74446 Sequence 25 |
| C 397 | 15.2 | 0.9 | 24 | 6 | E13893 | E13893 PCR primer | 470 | 15.2 | 0.9 | 34 | 6 | A70843 | A70843 Sequence 10 |
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| C 399 | 15.2 | 0.9 | 25 | 6 | AX042799 | AX042799 Sequence | 472 | 15.2 | 0.9 | 34 | 6 | AR018487 | AR018487 Sequence |
| C 400 | 15.2 | 0.9 | 25 | 6 | AX164104 | AX164104 Sequence | 473 | 15.2 | 0.9 | 34 | 6 | AX025109 | AX025109 Sequence |
| C 401 | 15.2 | 0.9 | 25 | 6 | AX283157 | AX283157 Sequence | 474 | 15.2 | 0.9 | 34 | 6 | AX148256 | AX148256 Sequence |
| C 402 | 15.2 | 0.9 | 26 | 6 | AX049488 | AX049488 Sequence | 475 | 15.2 | 0.9 | 34 | 6 | E27870 | E27870 Method for |
| C 403 | 15.2 | 0.9 | 27 | 6 | AX116468 | AX116468 Sequence | 476 | 15.2 | 0.9 | 35 | 6 | I72126 | I72126 Sequence 41 |
| C 404 | 15.2 | 0.9 | 27 | 6 | I81997 | I81997 Sequence 36 | 477 | 15.2 | 0.9 | 35 | 6 | AR074031 | AR074031 Sequence |
| C 405 | 15.2 | 0.9 | 27 | 6 | I91685 | I91685 Sequence 35 | 478 | 15.2 | 0.9 | 35 | 6 | AR116634 | AR116634 Sequence |
| C 406 | 15.2 | 0.9 | 28 | 6 | E16857 | E16857 PCR primer | 479 | 15.2 | 0.9 | 35 | 6 | AR120364 | AR120364 Sequence |
| C 407 | 15.2 | 0.9 | 28 | 6 | I70267 | I70267 Sequence 5 | 480 | 15.2 | 0.9 | 35 | 6 | AX089080 | AX089080 Sequence |
| C 408 | 15.2 | 0.9 | 28 | 6 | HSK270352 | AJ270352 Homo sapi | 481 | 15.2 | 0.9 | 35 | 6 | E22808 | E22808 Method for |
| C 409 | 15.2 | 0.9 | 29 | 6 | AR00983 | AJ00983 BamHI site | 482 | 15.2 | 0.9 | 35 | 6 | I50888 | I50888 Sequence 17 |
| C 410 | 15.2 | 0.9 | 29 | 6 | AO1720 | AO1720 Expression | 483 | 15.2 | 0.9 | 35 | 6 | I69442 | I69442 Sequence 7 |
| C 411 | 15.2 | 0.9 | 29 | 6 | S79082 | S79082 T-cell rece | 484 | 15.2 | 0.9 | 35 | 6 | I73061 | I73061 Sequence 7 |
| C 412 | 15.2 | 0.9 | 30 | 6 | A52417 | A52417 Sequence 4 | 485 | 15.2 | 0.9 | 35 | 6 | I79246 | I79246 Sequence 7 |
| C 413 | 15.2 | 0.9 | 30 | 6 | A87357 | A87357 Sequence 5 | 486 | 15.2 | 0.9 | 35 | 6 | I87020 | I87020 Sequence 7 |
| C 414 | 15.2 | 0.9 | 30 | 6 | AR049379 | AR049379 Sequence | 487 | 15.2 | 0.9 | 20 | 6 | AR029136 | AR029136 Sequence |
| C 415 | 15.2 | 0.9 | 30 | 6 | AR053197 | AR053197 Sequence | 488 | 15.2 | 0.9 | 20 | 6 | AR036520 | AR036520 Sequence |
| C 416 | 15.2 | 0.9 | 30 | 6 | AR053198 | AR053198 Sequence | 489 | 15.2 | 0.9 | 20 | 6 | AR073953 | AR073953 Sequence |
| C 417 | 15.2 | 0.9 | 30 | 6 | AR069517 | AR069517 Sequence | 490 | 15.2 | 0.9 | 20 | 6 | AR096053 | AR096053 Sequence |
| C 418 | 15.2 | 0.9 | 30 | 6 | AR080340 | AR080340 Sequence | 491 | 15.2 | 0.9 | 20 | 6 | AR105508 | AR105508 Sequence |
| C 419 | 15.2 | 0.9 | 30 | 6 | AR080341 | AR080341 Sequence | 492 | 15.2 | 0.9 | 20 | 6 | AX167902 | AX167902 Sequence |
| C 420 | 15.2 | 0.9 | 30 | 6 | AR080550 | AR080550 Sequence | 493 | 15.2 | 0.9 | 20 | 6 | E49532 | E49532 Antisense 0 |
| C 421 | 15.2 | 0.9 | 30 | 6 | AR086691 | AR086691 Sequence | 494 | 15.2 | 0.9 | 20 | 6 | I27252 | I27252 Sequence 22 |
| C 422 | 15.2 | 0.9 | 30 | 6 | AR095540 | AR095540 Sequence | 495 | 15.2 | 0.9 | 24 | 6 | AA1517 | AA1517 Sequence 10 |
| C 423 | 15.2 | 0.9 | 30 | 6 | AR170372 | AR170372 Sequence | 496 | 15.2 | 0.9 | 24 | 6 | AR035254 | AR035254 Sequence |
| C 424 | 15.2 | 0.9 | 30 | 6 | AX027859 | AX027859 Sequence | 497 | 15.2 | 0.9 | 24 | 6 | AR107124 | AR107124 Sequence |
| C 425 | 15.2 | 0.9 | 30 | 6 | AX180523 | AX180523 Sequence | 498 | 15.2 | 0.9 | 24 | 6 | AR112715 | AR112715 Sequence |
| C 426 | 15.2 | 0.9 | 30 | 6 | AX180564 | AX180564 Sequence | 499 | 15.2 | 0.9 | 24 | 6 | AX006399 | AX006399 Sequence |
| C 427 | 15.2 | 0.9 | 30 | 6 | AX287625 | AX287625 Sequence | 500 | 15.2 | 0.9 | 24 | 6 | AX022200 | AX022200 Sequence |
| C 428 | 15.2 | 0.9 | 30 | 23 | E10430 | E10430 PCR primer | 501 | 15.2 | 0.9 | 24 | 6 | AX030726 | AX030726 Sequence |
| C 429 | 15.2 | 0.9 | 31 | 6 | AR162914 | AR162914 Sequence | 502 | 15.2 | 0.9 | 24 | 6 | AX134138 | AX134138 Sequence |
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| C 431 | 15.2 | 0.9 | 31 | 6 | AX248135 | AX248135 Sequence | 504 | 15.2 | 0.9 | 24 | 6 | AX289001 | AX289001 Sequence |
| C 432 | 15.2 | 0.9 | 31 | 6 | AX248646 | AX248646 Sequence | 505 | 15.2 | 0.9 | 24 | 6 | AX289001 | AX289001 Sequence |
| C 433 | 15.2 | 0.9 | 31 | 6 | AX248749 | AX248749 Sequence | 506 | 15.2 | 0.9 | 24 | 6 | AX289626 | AX289626 Sequence |
| C 434 | 15.2 | 0.9 | 31 | 6 | AX248891 | AX248891 Sequence | 507 | 15.2 | 0.9 | 24 | 6 | AX292256 | AX292256 Sequence |
| C 435 | 15.2 | 0.9 | 31 | 6 | AX249242 | AX249242 Sequence | 508 | 15.2 | 0.9 | 24 | 6 | BD008647 | BD008647 Stable ex |
| C 436 | 15.2 | 0.9 | 31 | 6 | AX317678 | AX317678 Sequence | 509 | 15.2 | 0.9 | 24 | 6 | I73536 | I73536 Sequence 11 |
| C 437 | 15.2 | 0.9 | 31 | 6 | AX343139 | AX343139 Sequence | 510 | 15.2 | 0.9 | 26 | 6 | AX356212 | AX356212 Sequence |
| C 438 | 15.2 | 0.9 | 31 | 6 | BD002438 | BD002438 Gene comp | 511 | 15.2 | 0.9 | 27 | 6 | AR012144 | AR012144 Sequence |

| | | | | | | | | | | | | |
|-------|-----|----|----|----------|--------------------|-------|------|-----|----|----|----------|--------------------|
| 512 | 0.9 | 27 | 6 | AR078025 | AR078025 Sequence | c 585 | 15 | 0.9 | 33 | 6 | AX060322 | AX060322 Sequence |
| c 513 | 0.9 | 27 | 6 | AR143860 | AR143860 Sequence | 586 | 15 | 0.9 | 33 | 6 | AX108235 | AX108235 Sequence |
| 514 | 0.9 | 28 | 6 | AR161772 | AR161772 Sequence | 587 | 15 | 0.9 | 33 | 6 | AX108337 | AX108337 Sequence |
| c 515 | 0.9 | 29 | 6 | AR068329 | AR068329 Sequence | 588 | 15 | 0.9 | 33 | 6 | AX280465 | AX280465 Sequence |
| 516 | 0.9 | 29 | 6 | AR108657 | AR108657 Sequence | 589 | 15 | 0.9 | 33 | 6 | E06354 | E06354 Primer, 9/1 |
| 517 | 0.9 | 29 | 6 | AR177305 | AR177305 Sequence | 590 | 15 | 0.9 | 33 | 6 | E06550 | E06550 Primer, 9/1 |
| 518 | 0.9 | 29 | 6 | AX008184 | AX008184 Sequence | 591 | 15 | 0.9 | 33 | 6 | I44822 | I44822 Sequence 46 |
| 519 | 0.9 | 29 | 6 | BD003165 | BD003165 Secretary | 592 | 15 | 0.9 | 33 | 9 | HMTCVB8A | HMTCVB8A |
| 520 | 0.9 | 29 | 6 | 180084 | 180084 Sequence 62 | c 593 | 15 | 0.9 | 33 | 14 | S75739S1 | S75739 S-RNA reart |
| 521 | 0.9 | 30 | 6 | A49578 | A49578 Sequence 19 | c 594 | 15 | 0.9 | 33 | 14 | S75748S1 | S75748 S-RNA produ |
| 522 | 0.9 | 30 | 6 | A93817 | A93817 Sequence 10 | c 595 | 15 | 0.9 | 33 | 14 | S75751S1 | S75751 S-RNA produ |
| 523 | 0.9 | 30 | 6 | AR051439 | AR051439 Sequence | 596 | 15 | 0.9 | 34 | 6 | A31938 | A31938 Synthetic t |
| 524 | 0.9 | 30 | 6 | AR072579 | AR072579 Sequence | c 597 | 15 | 0.9 | 34 | 6 | AR036361 | AR036361 Sequence |
| 525 | 0.9 | 30 | 6 | AR073124 | AR073124 Sequence | c 598 | 15 | 0.9 | 34 | 6 | AR097387 | AR097387 Sequence |
| 526 | 0.9 | 30 | 6 | AR118766 | AR118766 Sequence | c 599 | 15 | 0.9 | 34 | 6 | AX097381 | AX097381 Sequence |
| c 527 | 0.9 | 30 | 6 | AX015594 | AX015594 Sequence | c 600 | 15 | 0.9 | 34 | 6 | AX247553 | AX247553 Sequence |
| 528 | 0.9 | 30 | 6 | AX214326 | AX214326 Sequence | c 601 | 15 | 0.9 | 34 | 6 | I72109 | I72109 Sequence 24 |
| c 529 | 0.9 | 30 | 6 | AX233631 | AX233631 Sequence | c 602 | 15 | 0.9 | 34 | 23 | E11305 | E11305 PCR primer |
| 530 | 0.9 | 30 | 6 | I06398 | I06398 Sequence 18 | c 603 | 15 | 0.9 | 35 | 6 | AR058744 | AR058744 Sequence |
| c 531 | 0.9 | 30 | 6 | I15043 | I15043 Sequence 15 | c 604 | 15 | 0.9 | 35 | 6 | AR101838 | AR101838 Sequence |
| c 532 | 0.9 | 30 | 6 | I71556 | I71556 Sequence 15 | c 605 | 15 | 0.9 | 35 | 6 | AX164076 | AX164076 Sequence |
| 533 | 0.9 | 30 | 9 | S81218 | S81218 T cell anti | c 606 | 15 | 0.9 | 35 | 6 | AX167827 | AX167827 Sequence |
| 534 | 0.9 | 31 | 6 | A13346 | A13346 B.pertussis | c 607 | 15 | 0.9 | 35 | 6 | BD000225 | BD000225 Cell for |
| c 535 | 0.9 | 31 | 6 | A37618 | A37618 Sequence 4 | c 608 | 15 | 0.9 | 35 | 6 | BD006859 | BD006859 Method fo |
| c 536 | 0.9 | 31 | 6 | A42246 | A42246 Sequence 34 | c 609 | 15 | 0.9 | 35 | 6 | I92367 | I92367 Sequence 19 |
| c 537 | 0.9 | 31 | 6 | AR001381 | AR001381 Sequence | c 610 | 14.8 | 0.9 | 18 | 6 | AR035154 | AR035154 Sequence |
| c 538 | 0.9 | 31 | 6 | AR044868 | AR044868 Sequence | c 611 | 14.8 | 0.9 | 18 | 6 | AR127642 | AR127642 Sequence |
| c 539 | 0.9 | 31 | 6 | AR052254 | AR052254 Sequence | c 612 | 14.8 | 0.9 | 18 | 6 | AR174568 | AR174568 Sequence |
| c 540 | 0.9 | 31 | 6 | AR078128 | AR078128 Sequence | c 613 | 14.8 | 0.9 | 19 | 6 | I75311 | I75311 Sequence 60 |
| c 541 | 0.9 | 31 | 6 | AR078131 | AR078131 Sequence | c 614 | 14.8 | 0.9 | 19 | 6 | AX129071 | AX129071 Sequence |
| c 542 | 0.9 | 31 | 6 | AR078361 | AR078361 Sequence | c 615 | 14.8 | 0.9 | 20 | 6 | AX093430 | AX093430 Sequence |
| 543 | 0.9 | 31 | 6 | AR079778 | AR079778 Sequence | c 616 | 14.8 | 0.9 | 20 | 6 | AX298690 | AX298690 Sequence |
| 544 | 0.9 | 31 | 6 | AR081308 | AR081308 Sequence | c 617 | 14.8 | 0.9 | 20 | 6 | E04285 | E04285 DNA encodin |
| c 545 | 0.9 | 31 | 6 | AR085212 | AR085212 Sequence | c 618 | 14.8 | 0.9 | 20 | 6 | E40784 | E40784 Antihuman F |
| c 546 | 0.9 | 31 | 6 | AR138132 | AR138132 Sequence | c 619 | 14.8 | 0.9 | 20 | 6 | I25198 | I25198 Sequence 12 |
| 547 | 0.9 | 31 | 6 | AR170668 | AR170668 Sequence | c 620 | 14.8 | 0.9 | 21 | 6 | AR163719 | AR163719 Sequence |
| c 548 | 0.9 | 31 | 6 | AX151286 | AX151286 Sequence | c 621 | 14.8 | 0.9 | 21 | 6 | AX097113 | AX097113 Sequence |
| c 549 | 0.9 | 31 | 6 | AX220849 | AX220849 Sequence | c 622 | 14.8 | 0.9 | 21 | 6 | AX298692 | AX298692 Sequence |
| 550 | 0.9 | 31 | 6 | AX221010 | AX221010 Sequence | c 623 | 14.8 | 0.9 | 22 | 6 | AR093407 | AR093407 Sequence |
| 551 | 0.9 | 31 | 6 | AX248321 | AX248321 Sequence | c 624 | 14.8 | 0.9 | 22 | 6 | AR093422 | AR093422 Sequence |
| c 552 | 0.9 | 31 | 6 | AX248360 | AX248360 Sequence | c 625 | 14.8 | 0.9 | 22 | 6 | E30932 | E30932 Amplificati |
| c 553 | 0.9 | 31 | 6 | AX248416 | AX248416 Sequence | c 626 | 14.8 | 0.9 | 22 | 6 | E30947 | E30947 Amplificati |
| c 554 | 0.9 | 31 | 6 | AX248447 | AX248447 Sequence | c 627 | 14.8 | 0.9 | 23 | 6 | A63000 | A63000 Sequence 4 |
| 555 | 0.9 | 31 | 6 | AX248900 | AX248900 Sequence | c 628 | 14.8 | 0.9 | 24 | 6 | AR049749 | AR049749 Sequence |
| c 556 | 0.9 | 31 | 6 | I13745 | I13745 Sequence 6 | c 629 | 14.8 | 0.9 | 24 | 6 | AR149643 | AR149643 Sequence |
| c 557 | 0.9 | 31 | 6 | I28175 | I28175 Sequence 18 | c 630 | 14.8 | 0.9 | 24 | 6 | E25574 | E25574 RNA molecu |
| c 558 | 0.9 | 31 | 6 | I33492 | I33492 Sequence 1 | c 631 | 14.8 | 0.9 | 24 | 6 | E25574 | E25574 RNA molecu |
| c 559 | 0.9 | 31 | 6 | I33918 | I33918 Sequence 30 | c 632 | 14.8 | 0.9 | 24 | 6 | E25576 | E25576 RNA molecu |
| c 560 | 0.9 | 31 | 6 | I92735 | I92735 Sequence 1 | c 633 | 14.8 | 0.9 | 25 | 6 | A16703 | A16703 Oligonucleo |
| c 561 | 0.9 | 32 | 6 | AR7189 | AR7189 Sequence 1 | c 634 | 14.8 | 0.9 | 25 | 6 | AR045214 | AR045214 Sequence |
| c 562 | 0.9 | 32 | 6 | AR026333 | AR026333 Sequence | c 635 | 14.8 | 0.9 | 25 | 6 | AX067206 | AX067206 Sequence |
| c 563 | 0.9 | 32 | 6 | AR036026 | AR036026 Sequence | c 636 | 14.8 | 0.9 | 25 | 6 | AX116928 | AX116928 Sequence |
| 564 | 0.9 | 32 | 6 | AR040592 | AR040592 Sequence | c 637 | 14.8 | 0.9 | 25 | 6 | I52266 | I52266 Sequence 9 |
| c 565 | 0.9 | 32 | 6 | AR051695 | AR051695 Sequence | c 638 | 14.8 | 0.9 | 25 | 6 | AR082521 | AR082521 Sequence |
| 566 | 0.9 | 32 | 6 | AR055616 | AR055616 Sequence | c 639 | 14.8 | 0.9 | 26 | 6 | AR090195 | AR090195 Sequence |
| 567 | 0.9 | 32 | 6 | AR151220 | AR151220 Sequence | c 640 | 14.8 | 0.9 | 26 | 6 | AR123709 | AR123709 Sequence |
| 568 | 0.9 | 32 | 6 | AX107347 | AX107347 Sequence | c 641 | 14.8 | 0.9 | 26 | 6 | AX007264 | AX007264 Sequence |
| 569 | 0.9 | 32 | 6 | AX107357 | AX107357 Sequence | c 642 | 14.8 | 0.9 | 26 | 6 | AX037860 | AX037860 Sequence |
| 570 | 0.9 | 32 | 6 | AX107364 | AX107364 Sequence | c 643 | 14.8 | 0.9 | 26 | 6 | AX279124 | AX279124 Sequence |
| c 571 | 0.9 | 32 | 6 | I12431 | I12431 Sequence 1 | c 644 | 14.8 | 0.9 | 27 | 6 | A64645 | A64645 Sequence 11 |
| c 572 | 0.9 | 32 | 6 | I12454 | I12454 Sequence 24 | c 645 | 14.8 | 0.9 | 27 | 6 | AR007303 | AR007303 Sequence |
| c 573 | 0.9 | 32 | 6 | I12459 | I12459 Sequence 29 | c 646 | 14.8 | 0.9 | 27 | 6 | AR040096 | AR040096 Sequence |
| c 574 | 0.9 | 32 | 6 | I14493 | I14493 Sequence 1 | c 647 | 14.8 | 0.9 | 27 | 6 | AR064446 | AR064446 Sequence |
| c 575 | 0.9 | 32 | 6 | I14516 | I14516 Sequence 24 | c 648 | 14.8 | 0.9 | 27 | 6 | AR106264 | AR106264 Sequence |
| c 576 | 0.9 | 32 | 6 | I14521 | I14521 Sequence 29 | c 649 | 14.8 | 0.9 | 27 | 6 | AR130232 | AR130232 Sequence |
| c 577 | 0.9 | 32 | 6 | I18228 | I18228 Sequence 10 | c 650 | 14.8 | 0.9 | 27 | 6 | AR145730 | AR145730 Sequence |
| c 578 | 0.9 | 32 | 6 | I85704 | I85704 Sequence 53 | c 651 | 14.8 | 0.9 | 27 | 6 | AX098271 | AX098271 Sequence |
| c 579 | 0.9 | 32 | 10 | AB011256 | AB011256 Mus muscu | c 652 | 14.8 | 0.9 | 27 | 6 | AX103952 | AX103952 Sequence |
| 580 | 0.9 | 33 | 6 | AB2759 | AB2759 Sequence 47 | c 653 | 14.8 | 0.9 | 27 | 6 | AX103953 | AX103953 Sequence |
| 581 | 0.9 | 33 | 6 | AB3097 | AB3097 Sequence 8 | c 654 | 14.8 | 0.9 | 27 | 6 | AX116540 | AX116540 Sequence |
| c 582 | 0.9 | 33 | 6 | AR036787 | AR036787 Sequence | c 655 | 14.8 | 0.9 | 27 | 6 | AX278515 | AX278515 Sequence |
| c 583 | 0.9 | 33 | 6 | AR086774 | AR086774 Sequence | c 656 | 14.8 | 0.9 | 27 | 6 | AX355744 | AX355744 Sequence |
| c 584 | 0.9 | 33 | 6 | AR129090 | AR129090 Sequence | c 657 | 14.8 | 0.9 | 27 | 6 | | |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|----------|--------------------|-------|------|-----|----|---|----------|---------------------|
| c 658 | 14.8 | 0.9 | 27 | 6 | AX355756 | AX355756 Sequence | c 731 | 14.8 | 0.9 | 33 | 6 | AR083855 | AR083855 Sequence |
| c 659 | 14.8 | 0.9 | 27 | 6 | E49888 | E49888 Analysis me | c 732 | 14.8 | 0.9 | 33 | 6 | AX280652 | AX280652 Sequence |
| c 660 | 14.8 | 0.9 | 27 | 6 | E61286 | E61286 Method for | c 733 | 14.8 | 0.9 | 33 | 6 | AX280653 | AX280653 Sequence |
| c 661 | 14.8 | 0.9 | 27 | 6 | I33630 | I33630 Sequence 10 | c 734 | 14.8 | 0.9 | 33 | 6 | AX317297 | AX317297 Sequence |
| c 662 | 14.8 | 0.9 | 28 | 6 | A65287 | A65287 Sequence 10 | c 735 | 14.8 | 0.9 | 33 | 6 | I13249 | I13249 Sequence 9 |
| c 663 | 14.8 | 0.9 | 28 | 6 | AR014286 | AR014286 Sequence | c 736 | 14.8 | 0.9 | 34 | 6 | A70112 | A70112 Sequence 30 |
| c 664 | 14.8 | 0.9 | 28 | 6 | AR027936 | AR027936 Sequence | c 737 | 14.8 | 0.9 | 34 | 6 | AR053201 | AR053201 Sequence |
| c 665 | 14.8 | 0.9 | 28 | 6 | AR071295 | AR071295 Sequence | c 738 | 14.8 | 0.9 | 34 | 6 | AR073271 | AR073271 Sequence |
| c 666 | 14.8 | 0.9 | 28 | 6 | AR083550 | AR083550 Sequence | c 739 | 14.8 | 0.9 | 34 | 6 | AR073272 | AR073272 Sequence |
| c 667 | 14.8 | 0.9 | 28 | 6 | AR108728 | AR108728 Sequence | c 740 | 14.8 | 0.9 | 34 | 6 | AR080344 | AR080344 Sequence |
| c 668 | 14.8 | 0.9 | 28 | 6 | AR150435 | AR150435 Sequence | c 741 | 14.8 | 0.9 | 34 | 6 | AR098658 | AR098658 Sequence |
| c 669 | 14.8 | 0.9 | 28 | 6 | AX253420 | AX253420 Sequence | c 742 | 14.8 | 0.9 | 34 | 6 | AR098661 | AR098661 Sequence |
| c 670 | 14.8 | 0.9 | 28 | 6 | AX306930 | AX306930 Sequence | c 743 | 14.8 | 0.9 | 34 | 6 | AR126130 | AR126130 Sequence |
| c 671 | 14.8 | 0.9 | 28 | 6 | I41109 | I41109 Sequence 12 | c 744 | 14.8 | 0.9 | 34 | 6 | AR148245 | AR148245 Sequence |
| c 672 | 14.8 | 0.9 | 28 | 6 | I41110 | I41110 Sequence 13 | c 745 | 14.8 | 0.9 | 34 | 6 | AR168702 | AR168702 Sequence |
| c 673 | 14.8 | 0.9 | 28 | 6 | I41113 | I41113 Sequence 16 | c 746 | 14.8 | 0.9 | 34 | 6 | AX019130 | AX019130 Sequence |
| c 674 | 14.8 | 0.9 | 28 | 6 | I41118 | I41118 Sequence 21 | c 747 | 14.8 | 0.9 | 34 | 6 | AX139040 | AX139040 Sequence |
| c 675 | 14.8 | 0.9 | 28 | 6 | I41119 | I41119 Sequence 22 | c 748 | 14.8 | 0.9 | 34 | 6 | AX207655 | AX207655 Sequence |
| c 676 | 14.8 | 0.9 | 28 | 6 | I59509 | I59509 Sequence 16 | c 749 | 14.8 | 0.9 | 34 | 6 | AX278099 | AX278099 Sequence |
| c 677 | 14.8 | 0.9 | 28 | 6 | I93673 | I93673 Sequence 5 | c 750 | 14.8 | 0.9 | 34 | 6 | E08015 | E08015 Primer. 9/1 |
| c 678 | 14.8 | 0.9 | 29 | 6 | A51835 | A51835 Sequence 9 | c 751 | 14.8 | 0.9 | 34 | 6 | E43305 | E43305 Composition |
| c 679 | 14.8 | 0.9 | 29 | 6 | A83977 | A83977 Sequence 4 | c 752 | 14.8 | 0.9 | 34 | 6 | E43901 | E43901 Novel Vector |
| c 680 | 14.8 | 0.9 | 29 | 6 | AR065650 | AR065650 Sequence | c 753 | 14.8 | 0.9 | 35 | 6 | AR029830 | AR029830 Sequence |
| c 681 | 14.8 | 0.9 | 29 | 6 | AR065650 | AR065650 Sequence | c 754 | 14.8 | 0.9 | 35 | 6 | AR120555 | AR120555 Sequence |
| c 682 | 14.8 | 0.9 | 29 | 6 | AR108156 | AR108156 Sequence | c 755 | 14.8 | 0.9 | 35 | 6 | AR121786 | AR121786 Sequence |
| c 683 | 14.8 | 0.9 | 29 | 6 | AR166439 | AR166439 Sequence | c 756 | 14.8 | 0.9 | 35 | 6 | AR126418 | AR126418 Sequence |
| c 684 | 14.8 | 0.9 | 29 | 6 | AX032970 | AX032970 Sequence | c 757 | 14.8 | 0.9 | 35 | 6 | AX033437 | AX033437 Sequence |
| c 685 | 14.8 | 0.9 | 29 | 6 | AX139030 | AX139030 Sequence | c 758 | 14.8 | 0.9 | 35 | 6 | AX073436 | AX073436 Sequence |
| c 686 | 14.8 | 0.9 | 29 | 6 | BD011430 | BD011430 Determina | c 759 | 14.8 | 0.9 | 35 | 6 | AX082923 | AX082923 Sequence |
| c 687 | 14.8 | 0.9 | 30 | 6 | A42506 | A42506 Sequence 22 | c 760 | 14.8 | 0.9 | 35 | 6 | AX082950 | AX082950 Sequence |
| c 688 | 14.8 | 0.9 | 30 | 6 | AR000078 | AR000078 Sequence | c 761 | 14.8 | 0.9 | 35 | 6 | AX146697 | AX146697 Sequence |
| c 689 | 14.8 | 0.9 | 30 | 6 | AR063475 | AR063475 Sequence | c 762 | 14.8 | 0.9 | 35 | 6 | AX183817 | AX183817 Sequence |
| c 690 | 14.8 | 0.9 | 30 | 6 | AR064901 | AR064901 Sequence | c 763 | 14.8 | 0.9 | 35 | 6 | AX329316 | AX329316 Sequence |
| c 691 | 14.8 | 0.9 | 30 | 6 | AR125892 | AR125892 Sequence | c 764 | 14.8 | 0.9 | 35 | 6 | E37282 | E37282 Process for |
| c 692 | 14.8 | 0.9 | 30 | 6 | AR161703 | AR161703 Sequence | c 765 | 14.8 | 0.9 | 35 | 6 | I36304 | I36304 Sequence 2 |
| c 693 | 14.8 | 0.9 | 30 | 6 | AR172665 | AR172665 Sequence | c 766 | 14.6 | 0.9 | 21 | 6 | AR084574 | AR084574 Sequence |
| c 694 | 14.8 | 0.9 | 30 | 6 | AX002755 | AX002755 Sequence | c 767 | 14.6 | 0.9 | 21 | 6 | AR084586 | AR084586 Sequence |
| c 695 | 14.8 | 0.9 | 30 | 6 | AX008567 | AX008567 Sequence | c 768 | 14.6 | 0.9 | 21 | 6 | AX023390 | AX023390 Sequence |
| c 696 | 14.8 | 0.9 | 30 | 6 | AX008572 | AX008572 Sequence | c 769 | 14.6 | 0.9 | 21 | 6 | AX023415 | AX023415 Sequence |
| c 697 | 14.8 | 0.9 | 30 | 6 | BD004762 | BD004762 Novel VEG | c 770 | 14.6 | 0.9 | 21 | 6 | AX148042 | AX148042 Sequence |
| c 698 | 14.8 | 0.9 | 30 | 6 | E04705 | E04705 Synthetic n | c 771 | 14.6 | 0.9 | 22 | 6 | A17182 | A17182 Oligonucleo |
| c 699 | 14.8 | 0.9 | 30 | 6 | I24259 | I24259 Sequence 46 | c 772 | 14.6 | 0.9 | 22 | 6 | A17267 | A17267 Oligonucleo |
| c 700 | 14.8 | 0.9 | 30 | 6 | I27659 | I27659 Sequence 24 | c 773 | 14.6 | 0.9 | 22 | 6 | A61440 | A61440 Sequence 9 |
| c 701 | 14.8 | 0.9 | 30 | 6 | I28155 | I28155 Sequence 12 | c 774 | 14.6 | 0.9 | 22 | 6 | A80545 | A80545 Sequence 33 |
| c 702 | 14.8 | 0.9 | 30 | 10 | S86277 | S86277 TCR V beta | c 775 | 14.6 | 0.9 | 22 | 6 | AR027565 | AR027565 Sequence |
| c 703 | 14.8 | 0.9 | 30 | 23 | E11722 | E11722 Primer for | c 776 | 14.6 | 0.9 | 22 | 6 | AR027650 | AR027650 Sequence |
| c 704 | 14.8 | 0.9 | 31 | 6 | A23197 | A23197 Artificial | c 777 | 14.6 | 0.9 | 22 | 6 | AR067022 | AR067022 Sequence |
| c 705 | 14.8 | 0.9 | 31 | 6 | A47895 | A47895 Sequence 13 | c 778 | 14.6 | 0.9 | 22 | 6 | AR070594 | AR070594 Sequence |
| c 706 | 14.8 | 0.9 | 31 | 6 | AR027322 | AR027322 Sequence | c 779 | 14.6 | 0.9 | 22 | 6 | AR109799 | AR109799 Sequence |
| c 707 | 14.8 | 0.9 | 31 | 6 | AR048156 | AR048156 Sequence | c 780 | 14.6 | 0.9 | 22 | 6 | AX059301 | AX059301 Sequence |
| c 708 | 14.8 | 0.9 | 31 | 6 | AR048590 | AR048590 Sequence | c 781 | 14.6 | 0.9 | 22 | 6 | AX151722 | AX151722 Sequence |
| c 709 | 14.8 | 0.9 | 31 | 6 | AR053308 | AR053308 Sequence | c 782 | 14.6 | 0.9 | 22 | 6 | AX235407 | AX235407 Sequence |
| c 710 | 14.8 | 0.9 | 31 | 6 | AR058213 | AR058213 Sequence | c 783 | 14.6 | 0.9 | 23 | 6 | AX034956 | AX034956 Sequence |
| c 711 | 14.8 | 0.9 | 31 | 6 | AR069331 | AR069331 Sequence | c 784 | 14.6 | 0.9 | 23 | 6 | AX038205 | AX038205 Sequence |
| c 712 | 14.8 | 0.9 | 31 | 6 | AR070948 | AR070948 Sequence | c 785 | 14.6 | 0.9 | 23 | 6 | AX148077 | AX148077 Sequence |
| c 713 | 14.8 | 0.9 | 31 | 6 | AR112222 | AR112222 Sequence | c 786 | 14.6 | 0.9 | 24 | 6 | AR031732 | AR031732 Sequence |
| c 714 | 14.8 | 0.9 | 31 | 6 | AR149264 | AR149264 Sequence | c 787 | 14.6 | 0.9 | 24 | 6 | AR084220 | AR084220 Sequence |
| c 715 | 14.8 | 0.9 | 31 | 6 | AR166166 | AR166166 Sequence | c 788 | 14.6 | 0.9 | 24 | 6 | AR147383 | AR147383 Sequence |
| c 716 | 14.8 | 0.9 | 31 | 6 | AX149533 | AX149533 Sequence | c 789 | 14.6 | 0.9 | 24 | 6 | AX038484 | AX038484 Sequence |
| c 717 | 14.8 | 0.9 | 31 | 6 | AX249056 | AX249056 Sequence | c 790 | 14.6 | 0.9 | 24 | 6 | AX197005 | AX197005 Sequence |
| c 718 | 14.8 | 0.9 | 31 | 6 | AX249217 | AX249217 Sequence | c 791 | 14.6 | 0.9 | 24 | 6 | AX203709 | AX203709 Sequence |
| c 719 | 14.8 | 0.9 | 31 | 6 | AX249341 | AX249341 Sequence | c 792 | 14.6 | 0.9 | 24 | 6 | AX278414 | AX278414 Sequence |
| c 720 | 14.8 | 0.9 | 31 | 6 | AX249707 | AX249707 Sequence | c 793 | 14.6 | 0.9 | 24 | 6 | I27696 | I27696 Sequence 3 |
| c 721 | 14.8 | 0.9 | 31 | 6 | BD024134 | BD024134 Sequence | c 794 | 14.6 | 0.9 | 24 | 6 | I39906 | I39906 Sequence 11 |
| c 722 | 14.8 | 0.9 | 31 | 6 | BD002458 | BD002458 Gene comp | c 795 | 14.6 | 0.9 | 24 | 6 | I83040 | I83040 Sequence 3 |
| c 723 | 14.8 | 0.9 | 31 | 6 | BD002279 | BD002279 Gene comp | c 796 | 14.6 | 0.9 | 24 | 6 | I83829 | I83829 Sequence 5 |
| c 724 | 14.8 | 0.9 | 31 | 6 | BD002840 | BD002840 Gene comp | c 797 | 14.6 | 0.9 | 24 | 6 | I90363 | I90363 Sequence 7 |
| c 725 | 14.8 | 0.9 | 31 | 6 | I09178 | I09178 Sequence 16 | c 798 | 14.6 | 0.9 | 25 | 6 | AR026202 | AR026202 Sequence |
| c 726 | 14.8 | 0.9 | 31 | 6 | I40927 | I40927 Sequence 42 | c 799 | 14.6 | 0.9 | 25 | 6 | AR026282 | AR026282 Sequence |
| c 727 | 14.8 | 0.9 | 31 | 6 | I62294 | I62294 Sequence 1 | c 800 | 14.6 | 0.9 | 25 | 6 | AR061447 | AR061447 Sequence |
| c 728 | 14.8 | 0.9 | 32 | 6 | AR154411 | AR154411 Sequence | c 801 | 14.6 | 0.9 | 25 | 6 | AR078519 | AR078519 Sequence |
| c 729 | 14.8 | 0.9 | 33 | 6 | AR067721 | AR067721 Sequence | c 802 | 14.6 | 0.9 | 25 | 6 | AR108346 | AR108346 Sequence |
| c 730 | 14.8 | 0.9 | 33 | 6 | AR079916 | AR079916 Sequence | c 803 | 14.6 | 0.9 | 25 | 6 | AR137933 | AR137933 Sequence |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|----------|--------------------|-------|------|-----|----|---|-----------|---------------------|
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| C 844 | 14.6 | 0.9 | 29 | 6 | E27220 | E27220 Novel physl | C 917 | 14.6 | 0.9 | 31 | 6 | I37324 | I37324 Sequence 33 |
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| C 965 | 14.6 | 0.9 | 34 | 6 | I78242 Sequence 40 |
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| C 968 | 14.6 | 0.9 | 35 | 6 | A47693 Sequence 1 |
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| C 979 | 14.6 | 0.9 | 35 | 11 | C75909 Homo sapien |
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ALIGNMENTS

26 bp DNA Linear PAT 12-JAN-2001

RESULT 1
AX053080/c
LOCUS AX053080
DEFINITION Sequence 4 from Patent WO0071703.
ACCESSION AX053080
VERSION AX053080.1 GI:12227137
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
Source

/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"
BASE COUNT 8 a 5 c 6 g 7 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 4.9e+04;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 gaatccgcatgactataattgctg 236
Db 26 GAATCCGATGACTATATTGCTG 1

RESULT 2
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LOCUS AX053089
DEFINITION Sequence 13 from Patent WO0071703.
ACCESSION AX053089
VERSION AX053089.1 GI:12227146
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
Source

/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Desorption of Combined DNA/RNA Molecule: Positions 1-4 and 27-26 are 2'-methoxyribose substituted nucleotides; positions 5-22 are deoxyribonucleotides"
BASE COUNT 8 a 5 c 6 g 7 t
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Best Local Similarity 100.0%; Pred. No. 4.9e+04;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 gaatccgcatgactataattgctg 236
Db 26 GAATCCGATGACTATATTGCTG 1

RESULT 3
AX053078/c
LOCUS AX053078
DEFINITION Sequence 2 from Patent WO0071703.
ACCESSION AX053078
VERSION AX053078.1 GI:12227135
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
Source

/organism="synthetic construct"
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BASE COUNT 7 a 5 c 7 t
ORIGIN

Query Match 1.6%; Score 26; DB 6; Length 26;
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Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 gaatccgcatgactataattgctg 236
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Query Match 1.5%; Score 24.4; DB 6; Length 26;
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RESULT 4
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DEFINITION Sequence 3 from Patent WO0071703.
ACCESSION AX053079
VERSION AX053079.1 GI:12227136
KEYWORDS

SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 26)
AUTHORS Macleod, A.R., Li, Z. and Besterman, J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 3 30-NOV-2000;
Methylgene, Inc. (CA)

FEATURES
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Location/Qualifiers

BASE COUNT 7 a 5 c 7 g 7 t
ORIGIN
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/note="synthetic oligonucleotide"

Query Match 1.5%; Score 24.4; DB 6; Length 26;
Best Local Similarity 96.2%; Pred. No. 1.3e+05;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 5
LOCUS AX053087/c 26 bp DNA linear PAT 12-JAN-2001
DEFINITION Sequence 11 from Patent WO0071703.
ACCESSION AX053087
VERSION AX053087.1 GI:12227144
KEYWORDS

SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 26)
AUTHORS Macleod, A.R., Li, Z. and Besterman, J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 11 30-NOV-2000;
Methylgene, Inc. (CA)

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Location/Qualifiers

BASE COUNT 7 a 5 c 7 g 7 t
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Query Match 1.5%; Score 24.4; DB 6; Length 26;
Best Local Similarity 96.2%; Pred. No. 1.3e+05;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 6
LOCUS AX053088 26 bp DNA linear PAT 12-JAN-2001
DEFINITION Sequence 12 from Patent WO0071703.
ACCESSION AX053088
VERSION AX053088.1 GI:12227145
KEYWORDS human.
SOURCE Homo sapiens

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 26)
AUTHORS Macleod, A.R., Li, Z. and Besterman, J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 12 30-NOV-2000;
Methylgene, Inc. (CA)

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Location/Qualifiers

BASE COUNT 7 a 5 c 7 g 7 t
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Best Local Similarity 96.2%; Pred. No. 1.3e+05;
Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 211 gaatccgcatgactcataattgctg 236
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Db 26 GAATCCGATGACCATTAATTGCTG 1

RESULT 7
LOCUS AX053081 26 bp DNA linear PAT 12-JAN-2001
DEFINITION Sequence 5 from Patent WO0071703.
ACCESSION AX053081
VERSION AX053081.1 GI:12227138
KEYWORDS

SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 26)
AUTHORS Macleod, A.R., Li, Z. and Besterman, J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 5 30-NOV-2000;
Methylgene, Inc. (CA)

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Location/Qualifiers

BASE COUNT 6 a 5 c 8 g 7 t
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Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 211 gaatccgcatgactcataattgctg 236
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Db 26 GAATCCGATGACCATTAATTGCTG 1

RESULT 8
AX053090/c
LOCUS AX053090
DEFINITION Sequence 14 from Patent W0071703.
ACCESSION AX053090
VERSION AX053090.1 GI:12227147
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 26)
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 14 30-NOV-2000;
Methylgene, Inc. (CA)
FEATURES
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/db_xref="taxon:32630"
/note="Description of Combined DNA/RNA Molecule: Positions 1-4 and 23-26 are 2'-methoxyribose substituted nucleotides; positions 5-22 are deoxyribonucleotides"
BASE COUNT 6 a 8 g 7 t
ORIGIN
Query Match 1.4%; Score 22.8; DB 6; Length 26;
Best Local Similarity 92.3%; Pred. No. 3.6e+05;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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DB 26 GAATCCGATGACCATTAACCTGCTG 1
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LOCUS AX053077
DEFINITION Sequence 1 from Patent W00071703.
ACCESSION AX053077
VERSION AX053077.1 GI:12227134
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 20)
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 1 30-NOV-2000;
Methylgene, Inc. (CA)
FEATURES
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/organism="synthetic construct"
/db_xref="taxon:32630"
/note="synthetic oligonucleotide"
BASE COUNT 7 a 4 c 7 g 2 t
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Query Match 1.2%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2e+06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1585 tgcgtagtcctcaccgtttc 1604
DB 20 TGCTGAGTCCCTCACGCTTC 1
RESULT 10
AX053086/c
LOCUS AX053086
DEFINITION Sequence 20 bp DNA linear PAT 12-JAN-2001

DEFINITION Sequence 10 from Patent W0071703.
ACCESSION AX053086
VERSION AX053086.1 GI:12227143
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 20)
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 10 30-NOV-2000;
Methylgene, Inc. (CA)
FEATURES
source 1..20
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Description of Combined DNA/RNA Molecule: Positions 1-4 and 17-20 are 2'-methoxyribose substituted nucleotides; positions 5-16 are deoxyribonucleotides"
BASE COUNT 7 a 4 c 7 g 2 t
ORIGIN
Query Match 1.2%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2e+06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1585 tgcgtagtcctcaccgtttc 1604
DB 20 TGCTGAGTCCCTCACGCTTC 1
RESULT 11
AX173370/c
LOCUS AX173370
DEFINITION Sequence 24 from Patent W00142445.
ACCESSION AX173370
VERSION AX173370.1 GI:14598145
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 24)
AUTHORS Murphy,B.R., Collins,P.L., Schmidt,A.C., Durbin,A.P., Skiadopoulos,M.H. and Tao,T.
TITLE Use of recombinant parainfluenza viruses (pivs) as vectors to protect against infection and disease caused by piv and other human pathogens
JOURNAL Patent: WO 0142445-A 24 14-JUN-2001;
The Secretary of the Department of Health and Human Services (US)
FEATURES
source 1..24
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/db_xref="taxon:32630"
/note="HPV1 HN primer"
BASE COUNT 6 a 5 c 7 g 6 t
ORIGIN
Query Match 1.2%; Score 19.2; DB 6; Length 24;
Best Local Similarity 87.5%; Pred. No. 3.4e+06;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 633 attgatattcaccatggtgacgc 656
DB 24 ATTGTAATTACCATGACAGCGC 1
RESULT 12
A06907
LOCUS A06907
DEFINITION Nucleotide sequence 27 from patent number EP0114759.
ACCESSION A06907

VERSION A06907.1 GI:411283
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM artificial sequence.
REFERENCE 1 (bases 1 to 34)
AUTHORS Nicholson, B.H.
TITLE Amino acid sequences and polypeptides including these sequences and having the specificity of foot and mouth disease and other viral antigens.
JOURNAL Patent: EP 0114759-A 27 01-AUG-1984;
Nicholson, Bruce Heywood
FEATURES
source 1..34 /organism="synthetic construct"
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BASE COUNT 13 a 8 c 7 g 6 t
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Query Match 1.2%; Score 19.2; DB 6; Length 34;
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Matches 24; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1047 acatataagacagctgtgacctgatacga 1078
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Db 2 ACACAGGAGACAGCTATGACCATGATTACGA 33

RESULT 13
LOCUS AX166289 29 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 12 from Patent WO0137881.
ACCESSION AX166289
VERSION AX166289.1 GI:14546745
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM artificial sequence.
REFERENCE 1 (bases 1 to 29)
AUTHORS von Laer, M.D.
TITLE Gene therapy of hiv-positive patients by the expression of membrane-anchored gp41 peptides
JOURNAL Patent: WO 0137881-A 12 31-MAY-2001;
Heinrich-Pette-Institut (DE)
FEATURES
source 1..29 location/Qualifiers
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Primer T20B91-"
BASE COUNT 11 a 10 c 2 g 6 t
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Query Match 1.1%; Score 18.4; DB 6; Length 29;
Best Local Similarity 78.6%; Pred. No. 5.7e+06;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 954 gcccaagtgtgtggaattgtcaagaagt 981
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Db 28 GGCAGATTGTGTGTAATGTGTAGATCT 1

RESULT 14
LOCUS AX249091 31 bp DNA linear PAT 28-SEP-2001
DEFINITION Sequence 1170 from Patent WO016800.
ACCESSION AX249091
VERSION AX249091.1 GI:15863714
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 31)
AUTHORS Cargill, M., Ireland, J.S. and Lander, E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 016800-A 1170 13-SEP-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
FEATURES
source 1..31 location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 10 a 2 c 15 g 3 t 1 others
ORIGIN

Query Match 1.1%; Score 18.4; DB 6; Length 31;
Best Local Similarity 78.6%; Pred. No. 5.8e+06;
Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;


QY 1506 aagagagagagccagcagcagaggg 1533
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Db 1 AAGGAGGAGAGCTGTGTAGCCAGGGCG 28

RESULT 15
LOCUS I36572 24 bp DNA linear PAT 13-MAY-1997
DEFINITION Sequence 13 from patent US 5607846.
ACCESSION I36572
VERSION I36572.1 GI:2086397
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Murphy, T.F. and Bhushan, R.
TITLE Vaccine for moraxella catarrhalis
JOURNAL Patent: US 5607846-A 13 04-MAR-1997;
FEATURES
source 1..24 location/Qualifiers
/organism="unknown"
BASE COUNT 8 a 6 c 3 g 7 t
ORIGIN

Query Match 1.1%; Score 18.2; DB 6; Length 24;
Best Local Similarity 87.0%; Pred. No. 6.4e+06;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1144 tcagtccttccatagactaac 1166
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Db 2 TCAGTCCTTCCATATGTATAAAC 24

Search completed: July 19, 2002, 00:22:53
Job time: 8449 sec



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| C 84 | 17.4 | 1.1 | 31 | 22 | AAI130531 | Human single nucle | C 157 | 16.4 | 1.0 | 20 | 20 | AAK05468 | Chimeric antisense |
| C 85 | 17.4 | 1.1 | 32 | 22 | AAFS54065 | hcfx gene AB5' age | C 158 | 16.4 | 1.0 | 20 | 20 | AAK15070 | C-raf antisense ch |
| C 86 | 17.4 | 1.1 | 35 | 20 | AAAI4633 | Triple helix third | C 159 | 16.4 | 1.0 | 20 | 21 | AAAI3515 | C-raf kinase antis |
| C 87 | 17.2 | 1.1 | 22 | 14 | AAO46535 | Nucleotide cis-dG | C 160 | 16.4 | 1.0 | 20 | 21 | AAZ48166 | C-raf chimeric pho |
| C 88 | 17.2 | 1.1 | 23 | 16 | AAO80772 | DNA detection asss | C 161 | 16.4 | 1.0 | 26 | 14 | AAO50272 | Oligonucleotide fo |
| C 89 | 17.2 | 1.1 | 23 | 19 | AAV53880 | Nucleotide sequenc | C 162 | 16.4 | 1.0 | 26 | 14 | AAQ50280 | Oligonucleotide fo |
| C 90 | 17.2 | 1.1 | 23 | 20 | AAV65432 | Oligonucleotide us | C 163 | 16.4 | 1.0 | 27 | 22 | AAQ55213 | Primer used to amp |
| C 91 | 17.2 | 1.1 | 24 | 16 | AAO80770 | DNA detection asss | C 164 | 16.4 | 1.0 | 28 | 22 | AAAF6832 | Human IGS1 cDNA c |
| C 92 | 17.2 | 1.1 | 24 | 19 | AAV53878 | Nucleotide sequenc | C 165 | 16.4 | 1.0 | 29 | 20 | AAAI1855 | Integrin subunit b |
| C 93 | 17.2 | 1.1 | 24 | 19 | AAV63430 | Beta signal oligon | C 166 | 16.4 | 1.0 | 29 | 20 | AAA22105 | Integrin subunit b |
| C 94 | 17.2 | 1.1 | 27 | 22 | AAH78620 | PCR primer RFC460 | C 167 | 16.4 | 1.0 | 29 | 20 | AAK80150 | Clostridium histol |
| C 95 | 17.2 | 1.1 | 30 | 7 | AAAO812 | Sequence of probe | C 168 | 16.4 | 1.0 | 29 | 20 | AAV93104 | Human B-raf hamme |
| C 96 | 17.2 | 1.1 | 31 | 21 | AAZ94244 | Vector primer used | C 169 | 16.4 | 1.0 | 29 | 21 | AAAF0583 | Hammerhead ribozym |
| C 97 | 17.2 | 1.1 | 31 | 19 | AAZ33248 | Neisseria species | C 170 | 16.4 | 1.0 | 29 | 21 | AAAF06918 | Hammerhead ribozym |
| C 98 | 17.2 | 1.1 | 33 | 21 | AAZ64664 | Neisseria sp. 16S | C 171 | 16.4 | 1.0 | 29 | 21 | AAAZ4466 | Oestrogen receptor |
| C 99 | 17.2 | 1.1 | 33 | 22 | AAH48435 | Cytochrome b12 PCR | C 172 | 16.4 | 1.0 | 29 | 21 | AAZ29677 | Human GAPDH prim |
| C 100 | 17.2 | 1.1 | 35 | 21 | AAZ55288 | Neisseria species | C 173 | 16.4 | 1.0 | 30 | 18 | AAI78208 | Physiologically ac |
| C 101 | 17 | 1.1 | 21 | 19 | AAV67421 | Nucleotide fragmen | C 174 | 16.4 | 1.0 | 30 | 19 | AAVA3396 | PCR primer used in |
| C 102 | 17 | 1.1 | 25 | 20 | AAZ35677 | Human blood myocar | C 175 | 16.4 | 1.0 | 30 | 20 | AAV82006 | Intestinal fatty a |
| C 103 | 17 | 1.1 | 27 | 21 | AAZ63309 | Hammerhead ribozym | C 176 | 16.4 | 1.0 | 30 | 21 | AAZ58501 | Llama heavy chain |
| C 104 | 17 | 1.1 | 29 | 20 | AAA23236 | Integrin subunit b | C 177 | 16.4 | 1.0 | 30 | 21 | AAZ38658 | PADRE-influenza m |
| C 105 | 17 | 1.1 | 29 | 21 | AAAF06915 | Hammerhead ribozym | C 178 | 16.4 | 1.0 | 30 | 22 | AAAF82024 | E. coli yqnd gene |
| C 106 | 17 | 1.1 | 31 | 22 | AAI29937 | Human single nucle | C 179 | 16.4 | 1.0 | 31 | 16 | AAQ93729 | Human stromelysin |
| C 107 | 17 | 1.1 | 33 | 21 | AAAC81890 | A. thaliana SRP34/ | C 180 | 16.4 | 1.0 | 31 | 16 | AAQ93730 | Human stromelysin |
| C 108 | 17 | 1.1 | 33 | 21 | AAAA48980 | Mutagenic PCR prim | C 181 | 16.4 | 1.0 | 31 | 16 | AAQ93731 | Human stromelysin |
| C 109 | 17 | 1.1 | 33 | 22 | AAAC85416 | Fragment #1 of sol | C 182 | 16.4 | 1.0 | 31 | 16 | AAQ93732 | Human stromelysin |
| C 110 | 17 | 1.1 | 34 | 17 | AAAA40130 | Human IL-8 recepto | C 183 | 16.4 | 1.0 | 31 | 17 | AAK53636 | Human stromelysin |
| C 111 | 17 | 1.1 | 34 | 19 | AAV62730 | Retroviral vector | C 184 | 16.4 | 1.0 | 31 | 17 | AAK53637 | Human stromelysin |
| C 112 | 16.8 | 1.0 | 27 | 18 | AAK68596 | Human fil1 VEGF re | C 185 | 16.4 | 1.0 | 31 | 17 | AAK53638 | Human stromelysin |
| C 113 | 16.8 | 1.0 | 30 | 14 | AAO51395 | Chlamydia capture | C 186 | 16.4 | 1.0 | 31 | 17 | AAK53639 | Human stromelysin |
| C 114 | 16.8 | 1.0 | 30 | 19 | AAV18700 | Homo sapiens IgG1 | C 187 | 16.4 | 1.0 | 31 | 20 | AAK38932 | Human genomic DNA |
| C 115 | 16.8 | 1.0 | 30 | 21 | AAA33017 | Corynebacterium g1 | C 188 | 16.4 | 1.0 | 31 | 20 | AAK03265 | Transposiiton site |
| C 116 | 16.8 | 1.0 | 30 | 21 | AAA29955 | PCR primer 14 spec | C 189 | 16.4 | 1.0 | 31 | 22 | AAI30497 | Human single nucle |
| C 117 | 16.8 | 1.0 | 30 | 22 | AAAF73441 | Grand fir monoterp | C 190 | 16.4 | 1.0 | 31 | 22 | AAHA5279 | Human CD30 domain P |
| C 118 | 16.8 | 1.0 | 31 | 19 | AAAF67593 | Nucleotide fragmen | C 191 | 16.4 | 1.0 | 31 | 23 | ABK08874 | Human CS20 zincyme |
| C 119 | 16.8 | 1.0 | 31 | 21 | AAAS1605 | Primer lra1016 for | C 192 | 16.4 | 1.0 | 32 | 21 | AAZ58500 | Llama heavy chain |
| C 120 | 16.8 | 1.0 | 31 | 22 | AAI130398 | Human single nucle | C 193 | 16.4 | 1.0 | 32 | 21 | AAZ58540 | Bovine myostatin u |
| C 121 | 16.8 | 1.0 | 31 | 22 | AAI30877 | Human single nucle | C 194 | 16.4 | 1.0 | 32 | 22 | AAAD05707 | Oligonucleotide #2 |
| C 122 | 16.8 | 1.0 | 32 | 16 | AAFO95537 | Reverse primer SEK | C 195 | 16.4 | 1.0 | 33 | 12 | AAO41139 | Lyme disease spiroc |
| C 123 | 16.8 | 1.0 | 32 | 22 | AAAF54063 | hpfX gene AB5' age | C 196 | 16.4 | 1.0 | 33 | 14 | AAOA5847 | CMV amplifier prob |
| C 124 | 16.8 | 1.0 | 33 | 16 | AAO84064 | Primer for amplity | C 197 | 16.4 | 1.0 | 33 | 21 | AAZ42423 | Plant elongase PCR |
| C 125 | 16.6 | 1.0 | 25 | 21 | AAAB68477 | Bacteriophage 3A O | C 198 | 16.4 | 1.0 | 34 | 21 | AAAC89308 | Primer EPK0M53. S |
| C 126 | 16.6 | 1.0 | 25 | 22 | AAAS08716 | Forward PCR primer | C 199 | 16.4 | 1.0 | 34 | 22 | AAAF67714 | HS1 fragment PCR p |
| C 127 | 16.6 | 1.0 | 25 | 22 | AAO2982 | Human CHM1 reverts | C 200 | 16.4 | 1.0 | 35 | 7 | AAAN60581 | Sequence of probes |
| C 128 | 16.6 | 1.0 | 27 | 12 | AAO14496 | Tandem repeat vari | C 201 | 16.4 | 1.0 | 35 | 10 | AAAN94233 | Sequence of probe |
| C 129 | 16.6 | 1.0 | 27 | 18 | AAK63238 | Delta-9 desaturase | C 202 | 16.4 | 1.0 | 35 | 17 | AAAT7182 | 5'-Primer for huma |
| C 130 | 16.6 | 1.0 | 29 | 19 | AAV26670 | Human PS112 expres | C 203 | 16.4 | 1.0 | 35 | 17 | AAAT08566 | Human CSF-1 N-term |
| C 131 | 16.6 | 1.0 | 29 | 20 | AAV19897 | Mouse protamine 1 | C 204 | 16.4 | 1.0 | 35 | 19 | AAAV05299 | 5' PCR primer used |
| C 132 | 16.6 | 1.0 | 29 | 21 | AAAF00679 | Hammerhead ribozym | C 205 | 16.4 | 1.0 | 35 | 19 | AAV05301 | 5' PCR primer used |
| C 133 | 16.6 | 1.0 | 29 | 21 | AAAF00679 | Hammerhead ribozym | C 206 | 16.4 | 1.0 | 35 | 20 | AAZ09604 | Human inositol mon |
| C 134 | 16.6 | 1.0 | 31 | 13 | AAO29483 | PCR primer for pro | C 207 | 16.4 | 1.0 | 35 | 20 | AAZ09606 | Human inositol mon |
| C 135 | 16.6 | 1.0 | 31 | 16 | AAO39734 | Probe for Norwalk | C 208 | 16.4 | 1.0 | 35 | 20 | AAK81413 | PCR primer E2 used |
| C 136 | 16.6 | 1.0 | 31 | 16 | AAO93733 | Human stromelysin | C 209 | 16.4 | 1.0 | 35 | 21 | AAAC63733 | Human inositol mon |
| C 137 | 16.6 | 1.0 | 31 | 17 | AAK63641 | Human stromelysin | C 210 | 16.4 | 1.0 | 35 | 21 | AAAC63735 | Human inositol mon |
| C 138 | 16.6 | 1.0 | 31 | 17 | AAK63641 | Human stromelysin | C 211 | 16.4 | 1.0 | 35 | 24 | AAAD21977 | SCF variable heav |
| C 139 | 16.6 | 1.0 | 31 | 22 | AAH24151 | Adenovirus 5 genom | C 212 | 16.2 | 1.0 | 26 | 22 | AAHA6501 | Human ADAM10 PCR p |
| C 140 | 16.6 | 1.0 | 31 | 22 | AAH24164 | Adenovirus 5 Ela P | C 213 | 16.2 | 1.0 | 27 | 18 | AAAX74300 | Mouse flt-1 VEGF r |
| C 141 | 16.6 | 1.0 | 32 | 21 | AAZ89148 | Mutine clotidin prot | C 214 | 16.2 | 1.0 | 27 | 22 | AAAC67247 | Fibrosis modulator |
| C 142 | 16.6 | 1.0 | 33 | 18 | AAV04912 | Origin of replicat | C 215 | 16.2 | 1.0 | 28 | 17 | AAAT15238 | Primer #1 for huma |
| C 143 | 16.6 | 1.0 | 33 | 20 | AAV24304 | Yeast WRN gene hom | C 216 | 16.2 | 1.0 | 28 | 18 | AAV01974 | Human myelin oligo |
| C 144 | 16.6 | 1.0 | 33 | 21 | AAZ29693 | Oligonucleotide B2 | C 217 | 16.2 | 1.0 | 29 | 20 | AAAS9077 | MOP7 PCR primer OL |
| C 145 | 16.6 | 1.0 | 34 | 16 | AAAT01858 | Hairpin oligo 2268 | C 218 | 16.2 | 1.0 | 30 | 15 | AAO62213 | Histone H2B mRNA P |
| C 146 | 16.6 | 1.0 | 34 | 16 | AAAT01860 | Hairpin oligo for | C 219 | 16.2 | 1.0 | 30 | 16 | AAAT00989 | Human papilloma vi |
| C 147 | 16.6 | 1.0 | 34 | 17 | AAAT38879 | Sense primer 2 for | C 220 | 16.2 | 1.0 | 30 | 16 | AAO88089 | Primer used to cre |
| C 148 | 16.6 | 1.0 | 34 | 18 | AAAT43354 | Primer #3 for G-pr | C 221 | 16.2 | 1.0 | 30 | 21 | AAAI30679 | Human GPR4 (K223A) |
| C 149 | 16.6 | 1.0 | 34 | 20 | AAK03225 | Consensus binding | C 222 | 16.2 | 1.0 | 30 | 21 | AAAO5747 | Protein Viti zone- |
| C 150 | 16.6 | 1.0 | 34 | 20 | AAK03225 | Altered finger 2 b | C 223 | 16.2 | 1.0 | 30 | 22 | AAAI4561 | HPV Oligonucleotid |
| C 151 | 16.4 | 1.0 | 20 | 17 | AAAT27507 | Human c-raf kinase | C 224 | 16.2 | 1.0 | 30 | 22 | AAAS1195 | P. aeruginosa gene |
| C 152 | 16.4 | 1.0 | 20 | 18 | AAK36464 | Chimeric 2'-O-meth | C 225 | 16.2 | 1.0 | 30 | 32 | AAHA6313 | 30mer single stran |
| C 153 | 16.4 | 1.0 | 20 | 18 | AAAT62157 | Human c-raf and de | C 226 | 16.2 | 1.0 | 31 | 17 | AAAT10774 | Oligonucleotide ca |
| C 154 | 16.4 | 1.0 | 20 | 18 | AAAT59728 | Human raf inhibito | C 227 | 16.2 | 1.0 | 31 | 20 | AAK81338 | M13 attachment and |
| C 155 | 16.4 | 1.0 | 20 | 20 | AAZ11537 | Human c-raf kinase | C 228 | 16.2 | 1.0 | 31 | 20 | AAK39269 | Human genomic DNA |

| | | | | | | |
|-------|------|-----|----|----|-----------|-----------------------|
| C 229 | 16.2 | 1.0 | 31 | 20 | AAx39049 | Human genomic DNA |
| C 230 | 16.2 | 1.0 | 31 | 20 | AAx39116 | Human genomic DNA |
| C 231 | 16.2 | 1.0 | 31 | 21 | AAx97399 | pUC19 PCR primer, |
| C 232 | 16.2 | 1.0 | 31 | 21 | AA255124 | Neisseria species |
| C 233 | 16.2 | 1.0 | 31 | 22 | AA129883 | Human single nucle |
| C 234 | 16.2 | 1.0 | 31 | 22 | AA130978 | Human single nucle |
| C 235 | 16.2 | 1.0 | 31 | 22 | AAH97340 | Human Chk1 ribozym |
| C 236 | 16.2 | 1.0 | 31 | 23 | ABK06838 | Human NCOG DNAzyme |
| C 237 | 16.2 | 1.0 | 32 | 21 | AA47074 | Primer Bamc to mut |
| C 238 | 16.2 | 1.0 | 32 | 21 | AA247074 | Oligonucleotide Ba |
| C 239 | 16.2 | 1.0 | 33 | 20 | AA210571 | PCR primer for G p |
| C 240 | 16.2 | 1.0 | 33 | 20 | AAx89564 | Forward PCR primer |
| C 241 | 16.2 | 1.0 | 33 | 21 | AA243139 | PCR primer for C. |
| C 242 | 16.2 | 1.0 | 34 | 14 | AAQ33119 | Alpha-5 subunit pr |
| C 243 | 16.2 | 1.0 | 34 | 15 | AAQ69127 | Human GABA recepto |
| C 244 | 16.2 | 1.0 | 34 | 17 | AA232977 | Fragment #2 of mon |
| C 245 | 16.2 | 1.0 | 35 | 14 | AAQ47038 | Immunomodulatory c |
| C 246 | 16.2 | 1.0 | 35 | 19 | AAV30030 | PCR primer used to |
| C 247 | 16.2 | 1.0 | 35 | 22 | AAAD21211 | Immunomodulatory c |
| C 248 | 16.2 | 1.0 | 35 | 22 | AAx02900 | Human NAIP PCR pri |
| C 249 | 16.2 | 1.0 | 35 | 24 | AAQ49237 | Human TR mRNA anch |
| C 250 | 16.2 | 1.0 | 35 | 24 | AA222312 | Probe/PCR primer f |
| C 251 | 16.2 | 1.0 | 35 | 22 | AAH55861 | Human SCN1A PCR-SS |
| C 252 | 16.2 | 1.0 | 35 | 24 | AA562205 | Porcine reverse PC |
| C 253 | 16.2 | 1.0 | 35 | 24 | AA562207 | Porcine reverse PC |
| C 254 | 16.2 | 1.0 | 36 | 17 | AA10122 | Antisense sequence |
| C 255 | 16.2 | 1.0 | 36 | 20 | AAx36427 | PCR primer for Hum |
| C 256 | 16.2 | 1.0 | 36 | 21 | AAx55840 | Histone deacetylase |
| C 257 | 16.2 | 1.0 | 37 | 13 | AAQ30059 | JH probe #4 to del |
| C 258 | 16.2 | 1.0 | 37 | 18 | AAx68579 | Human fil1 VEGF re |
| C 259 | 16.2 | 1.0 | 39 | 14 | AAQ48887 | Mature NT-3 primer |
| C 260 | 16.2 | 1.0 | 39 | 14 | AAQ08906 | Abalone actin prim |
| C 261 | 16.2 | 1.0 | 39 | 18 | AA276033 | Human A1 adenosine |
| C 262 | 16.2 | 1.0 | 39 | 20 | AA180073 | Human TIF-2 hamme |
| C 263 | 16.2 | 1.0 | 39 | 20 | AA118078 | Human TIF-2 hamme |
| C 264 | 16.2 | 1.0 | 39 | 20 | AA119362 | Integrin alpha 6 s |
| C 265 | 16.2 | 1.0 | 39 | 20 | AAx22284 | Integrin subunit b |
| C 266 | 16.2 | 1.0 | 39 | 20 | AAx53826 | Human adenosine A1 |
| C 267 | 16.2 | 1.0 | 39 | 20 | AAV93018 | Human B-raf hamme |
| C 268 | 16.2 | 1.0 | 39 | 21 | AA119391 | Human adenosine A1 |
| C 269 | 16.2 | 1.0 | 39 | 21 | AA105715 | Hammerhead ribozym |
| C 270 | 16.2 | 1.0 | 39 | 21 | AA105885 | Hammerhead ribozym |
| C 271 | 16.2 | 1.0 | 39 | 21 | AAx33269 | Low adenosine anti |
| C 272 | 16.2 | 1.0 | 39 | 21 | AAx03671 | Human adenosine A1 |
| C 273 | 16.2 | 1.0 | 39 | 21 | AAx33398 | Human secreted pro |
| C 274 | 16.2 | 1.0 | 39 | 21 | AAx52035 | B-cell mRNA ribozym |
| C 275 | 16.2 | 1.0 | 39 | 19 | AAV36682 | Nucleotide sequenc |
| C 276 | 16.2 | 1.0 | 39 | 19 | AAV36682 | Granule bound star |
| C 277 | 16.2 | 1.0 | 31 | 18 | AAx62535 | Granule bound star |
| C 278 | 16.2 | 1.0 | 31 | 18 | AAx62491 | PCR primer for FIX |
| C 279 | 16.2 | 1.0 | 31 | 22 | AA130754 | Human single nucle |
| C 280 | 16.2 | 1.0 | 31 | 22 | AAx83307 | Primer #7 used in |
| C 281 | 16.2 | 1.0 | 32 | 18 | AA178212 | Physiologically ac |
| C 282 | 16.2 | 1.0 | 32 | 19 | AAV43400 | 5' PCR primer used |
| C 283 | 16.2 | 1.0 | 32 | 22 | AAx44048 | Neisseria meningit |
| C 284 | 16.2 | 1.0 | 33 | 13 | AAQ25154 | Alpha-GalNAc sense |
| C 285 | 16.2 | 1.0 | 33 | 14 | AAQ35130 | PCR primer for CTL |
| C 286 | 16.2 | 1.0 | 33 | 15 | AAQ70458 | Primer to amplify |
| C 287 | 16.2 | 1.0 | 33 | 16 | AAQ98053 | Encodes RNA which |
| C 288 | 16.2 | 1.0 | 33 | 16 | AAQ08529 | Forward primer for |
| C 289 | 16.2 | 1.0 | 33 | 16 | AAV68376 | Clone #2 fragment |
| C 290 | 16.2 | 1.0 | 33 | 20 | AAx23186 | CTLA4 receptor clo |
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| C 292 | 16.2 | 1.0 | 33 | 20 | AAx26426 | Forward primer use |
| C 293 | 16.2 | 1.0 | 33 | 20 | AAx26409 | Forward primer use |
| C 294 | 16.2 | 1.0 | 33 | 20 | AAV83668 | Forward PCR primer |
| C 295 | 16.2 | 1.0 | 33 | 22 | AAV69784 | Human CTLA4 recept |
| C 296 | 16.2 | 1.0 | 33 | 22 | AAAD21690 | Imperfect direct r |
| C 297 | 16.2 | 1.0 | 33 | 22 | AAx503942 | 30654188 TOPO forw |
| C 298 | 16.2 | 1.0 | 33 | 22 | AAx31153 | Mutagenic primer # |
| C 299 | 16.2 | 1.0 | 33 | 22 | AAx31154 | Mutagenic primer # |
| C 300 | 16.2 | 1.0 | 34 | 17 | AAx32654 | PCR primer for col |
| C 301 | 16.2 | 1.0 | 34 | 20 | AAx60569 | CEA promoter const |
| C 302 | 16.2 | 1.0 | 34 | 21 | AAx58045 | Porcine reproducti |
| C 303 | 16.2 | 1.0 | 35 | 17 | AAx58756 | CSF-1 full length |
| C 304 | 16.2 | 1.0 | 35 | 18 | AAV01081 | Human CSF-1 gene p |
| C 305 | 16.2 | 1.0 | 35 | 18 | AA193837 | Phosphodiester o11 |
| C 306 | 16.2 | 1.0 | 35 | 18 | AA194750 | Human colony stimu |
| C 307 | 16.2 | 1.0 | 35 | 18 | AA180592 | Human colony stimu |
| C 308 | 16.2 | 1.0 | 35 | 18 | AA176264 | Human IL6 receptor |
| C 309 | 16.2 | 1.0 | 35 | 20 | AAx54054 | Human IL-6 recepto |
| C 310 | 16.2 | 1.0 | 35 | 21 | AA196270 | Human IL6 receptor |
| C 311 | 16.2 | 1.0 | 35 | 21 | AAx88470 | Human colony stimu |
| C 312 | 16.2 | 1.0 | 35 | 21 | AAx37726 | Probe EK14 for hum |
| C 313 | 16.2 | 1.0 | 35 | 21 | AAx33498 | Low adenosine anti |
| C 314 | 16.2 | 1.0 | 35 | 22 | AA165946 | Primer used to amp |
| C 315 | 16.2 | 1.0 | 35 | 22 | AAH74819 | PCR primer used to |
| C 316 | 16.2 | 1.0 | 35 | 22 | AAAD03864 | to EK 14 probe to obt |
| C 317 | 16.2 | 1.0 | 35 | 22 | AAx86367 | Primer used to amp |
| C 318 | 16.2 | 1.0 | 35 | 22 | AAx93065 | Human colony stimu |
| C 319 | 16.2 | 1.0 | 35 | 22 | AAx89102 | Human CSF-1 PCR pr |
| C 320 | 16.2 | 1.0 | 35 | 22 | AA110011 | Arabidopsis thalia |
| C 321 | 16.2 | 1.0 | 35 | 22 | AAV40339 | Maize oligonucleot |
| C 322 | 16.2 | 1.0 | 35 | 22 | AA1922787 | Primer #2 for inte |
| C 323 | 16.2 | 1.0 | 35 | 22 | AAV52784 | Intestinal fatty a |
| C 324 | 16.2 | 1.0 | 35 | 22 | AAx09947 | Primer 2 for human |
| C 325 | 16.2 | 1.0 | 35 | 22 | AAx29644 | Human 20p1f12 gene |
| C 326 | 16.2 | 1.0 | 35 | 22 | AAx52823 | Puro.1 PCR primer |
| C 327 | 16.2 | 1.0 | 35 | 22 | AAx09984 | Primer puro.1 for |
| C 328 | 16.2 | 1.0 | 35 | 22 | AAx10005 | Primer CDPuro-2 fo |
| C 329 | 16.2 | 1.0 | 35 | 22 | AA171718 | PCR primer CDPuro- |
| C 330 | 16.2 | 1.0 | 35 | 22 | AAQ66920 | PCR primer DEC2. |
| C 331 | 16.2 | 1.0 | 35 | 22 | AAQ72581 | Regulatory region |
| C 332 | 16.2 | 1.0 | 35 | 22 | AAx88289 | 27 base oligonucle |
| C 333 | 16.2 | 1.0 | 35 | 22 | AAx21687 | Imperfect direct r |
| C 334 | 16.2 | 1.0 | 35 | 22 | AAx21708 | Imperfect direct r |
| C 335 | 16.2 | 1.0 | 35 | 22 | AAx21711 | Imperfect direct r |
| C 336 | 16.2 | 1.0 | 35 | 22 | AAx54043 | hfix gene pEA-3 el |
| C 337 | 16.2 | 1.0 | 35 | 22 | AAH47177 | Nucleotide sequenc |
| C 338 | 16.2 | 1.0 | 35 | 22 | AAQ38717 | Oligonucleotide fo |
| C 339 | 16.2 | 1.0 | 35 | 22 | AAx70140 | Primer for human M |
| C 340 | 16.2 | 1.0 | 35 | 22 | AAx89563 | Adenovirus pXC-1 p |
| C 341 | 16.2 | 1.0 | 35 | 22 | AAx19338 | Integrin alpha 6 s |
| C 342 | 16.2 | 1.0 | 35 | 22 | AAx19508 | Integrin alpha 6 s |
| C 343 | 16.2 | 1.0 | 35 | 22 | AAx19805 | Integrin alpha 6 s |
| C 344 | 16.2 | 1.0 | 35 | 22 | AAx19948 | Integrin alpha 6 s |
| C 345 | 16.2 | 1.0 | 35 | 22 | AAx22331 | Integrin subunit b |
| C 346 | 16.2 | 1.0 | 35 | 22 | AAx59046 | Human transcriptio |
| C 347 | 16.2 | 1.0 | 35 | 22 | AAx93083 | Human B-raf hamme |
| C 348 | 16.2 | 1.0 | 35 | 22 | AAx0423 | Hammerhead ribozym |
| C 349 | 16.2 | 1.0 | 35 | 22 | AAx97090 | Human HSIY1 PCR pr |
| C 350 | 16.2 | 1.0 | 35 | 22 | AAx97155 | Cytochrome b PCR p |
| C 351 | 16.2 | 1.0 | 35 | 22 | ABK16709 | Erythropoietin rec |
| C 352 | 16.2 | 1.0 | 35 | 22 | AAx62216 | Histone H3 mRNA pr |
| C 353 | 16.2 | 1.0 | 35 | 22 | AAx21292 | Mus musculus I-mfa |
| C 354 | 16.2 | 1.0 | 35 | 22 | AAx31100 | PCR primer NTM-S f |
| C 355 | 16.2 | 1.0 | 35 | 22 | AAx60672 | Human HSIY1 PCR pr |
| C 356 | 16.2 | 1.0 | 35 | 22 | AAx54044 | hfix gene pEA-3 el |
| C 357 | 16.2 | 1.0 | 35 | 22 | AAx72913 | Treponea pallidum |
| C 358 | 16.2 | 1.0 | 35 | 22 | AAx73743 | Filamin truncation |
| C 359 | 16.2 | 1.0 | 35 | 22 | AAx06542 | Primer B741/175x |
| C 360 | 16.2 | 1.0 | 35 | 22 | AAx02287 | PCR primer #29. S |
| C 361 | 16.2 | 1.0 | 35 | 22 | AAx02287 | PCR primer #13. S |
| C 362 | 16.2 | 1.0 | 35 | 22 | AAx02289 | PCR primer #21. S |
| C 363 | 16.2 | 1.0 | 35 | 22 | AAx78755 | Human genomic DNA |
| C 364 | 16.2 | 1.0 | 35 | 22 | AA130450 | Human single nucle |
| C 365 | 16.2 | 1.0 | 35 | 22 | AA130451 | Human single nucle |
| C 366 | 16.2 | 1.0 | 35 | 22 | AA131027 | Human single nucle |
| C 367 | 16.2 | 1.0 | 35 | 22 | AAx73436 | Grand fir monoterp |
| C 368 | 16.2 | 1.0 | 35 | 22 | AAQ31859 | PCR primer 1 to am |
| C 369 | 16.2 | 1.0 | 35 | 22 | AAx47871 | Primer for 5' frag |
| C 370 | 16.2 | 1.0 | 35 | 22 | AAx63549 | Oligonucleotide sp |
| C 371 | 16.2 | 1.0 | 35 | 22 | AAx57432 | Human phospholipid |
| C 372 | 16.2 | 1.0 | 35 | 22 | AAx57878 | H2510 hybridoma h |
| C 373 | 16.2 | 1.0 | 35 | 22 | AA171644 | Rat liver CDNA vec |
| C 374 | 16.2 | 1.0 | 35 | 22 | | |

| | | | | | | |
|-----|------|-----|----|----|----------|--------------------|
| 375 | 15.8 | 1.0 | 32 | 22 | AAF54016 | hfix gene 5' UTR a |
| 376 | 15.8 | 1.0 | 32 | 22 | AAF54066 | hfix gene A65' age |
| 377 | 15.8 | 1.0 | 32 | 22 | AAD23936 | hfix gene A65' age |
| 378 | 15.8 | 1.0 | 32 | 24 | AAI66291 | Parallel precursor |
| 379 | 15.8 | 1.0 | 33 | 13 | AAO25153 | Parallel sequencin |
| 380 | 15.8 | 1.0 | 33 | 17 | AAT33047 | Alpha-Gal A antise |
| 381 | 15.8 | 1.0 | 33 | 17 | AAT70923 | Sense primer to li |
| 382 | 15.8 | 1.0 | 33 | 18 | AAV54252 | Primer N15 for tes |
| 383 | 15.8 | 1.0 | 33 | 20 | AAV58876 | Primer K141 used |
| 384 | 15.8 | 1.0 | 33 | 20 | AAV58876 | Mouse type I colia |
| 385 | 15.8 | 1.0 | 33 | 20 | AAV58876 | Soluble sc-PCR fus |
| 386 | 15.8 | 1.0 | 33 | 22 | AAV54069 | Nucleotide sequenc |
| 387 | 15.8 | 1.0 | 33 | 22 | AAV54069 | hfix gene A65' age |
| 388 | 15.8 | 1.0 | 33 | 24 | ABA04314 | Human zinc finger |
| 389 | 15.8 | 1.0 | 33 | 24 | ABA04314 | Human zinc finger |
| 390 | 15.8 | 1.0 | 34 | 16 | AAV04843 | Human phosphoester |
| 391 | 15.8 | 1.0 | 34 | 19 | AAV38977 | PCR primer for pTO |
| 392 | 15.8 | 1.0 | 34 | 22 | AAV82046 | Streptococcus pneu |
| 393 | 15.8 | 1.0 | 34 | 22 | AAV82046 | Antibody 11E10 spe |
| 394 | 15.8 | 1.0 | 34 | 22 | AAV82046 | Template Nuc T6 fo |
| 395 | 15.8 | 1.0 | 34 | 23 | AB197704 | Endogenous human G |
| 396 | 15.8 | 1.0 | 34 | 23 | AB197888 | Non-endogenous hum |
| 397 | 15.8 | 1.0 | 35 | 15 | AAO62596 | PCR primer to ampl |
| 398 | 15.8 | 1.0 | 35 | 21 | AAZ54718 | Neisseria species |
| 399 | 15.8 | 1.0 | 35 | 24 | AAZ54718 | Neisseria species |
| 400 | 15.6 | 1.0 | 35 | 24 | ABL01681 | Human MHL1 (hMLH1) |
| 401 | 15.6 | 1.0 | 35 | 24 | ABL01681 | Nucleotide cis-d(A |
| 402 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Nucleotide cis-d(G |
| 403 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Human SECCX 403508 |
| 404 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Rac 1 antisense ph |
| 405 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Human A2p adenosin |
| 406 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Human adenosine A2 |
| 407 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Human adenosine A2 |
| 408 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Low adenosine anti |
| 409 | 15.6 | 1.0 | 35 | 24 | AAQ46536 | Human adenosine A1 |
| 410 | 15.6 | 1.0 | 35 | 24 | AAH77684 | PCR primer for hum |
| 411 | 15.6 | 1.0 | 35 | 24 | AAH77684 | PCR primer for hum |
| 412 | 15.6 | 1.0 | 35 | 24 | AAH77684 | mefA/K resistance |
| 413 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Ig heavy chain gam |
| 414 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Probe for the dete |
| 415 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Probe for the dete |
| 416 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Probe for the dete |
| 417 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human immunodefici |
| 418 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human immunodefici |
| 419 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human immunodefici |
| 420 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human immunodefici |
| 421 | 15.6 | 1.0 | 35 | 24 | AAH77684 | HIV region 4 probe |
| 422 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Protein p53 SBP1 P |
| 423 | 15.6 | 1.0 | 35 | 24 | AAH77684 | PCR sense primer P |
| 424 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Mouse flk-1 VEGF r |
| 425 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human KDR VEGF rec |
| 426 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 427 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 428 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 429 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 430 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 431 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 432 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human flt1 VEGF re |
| 433 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Delta-9 desaturase |
| 434 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Potato citrate syn |
| 435 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Solanidine glucosy |
| 436 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Mezozote surface |
| 437 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Mezozote surface |
| 438 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Actinobacter calc |
| 439 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 440 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Ovine IL-4 gene 5' |
| 441 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Sequence of primer |
| 442 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Probe for use in t |
| 443 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Primer CD28-3' use |
| 444 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Human TIR-2 hamme |
| 445 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Integrin alpha 6 s |
| 446 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 447 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 448 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 449 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 450 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 451 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 452 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 453 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 454 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 455 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 456 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 457 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 458 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 474 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 477 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 483 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 495 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 497 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 539 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 540 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
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| 549 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 550 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 551 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 552 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 553 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 554 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 555 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 556 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 557 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 558 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 559 | 15.6 | 1.0 | 35 | 24 | AAH77684 | Hammerhead ribozym |
| 560 | 15.6 | 1.0 | 35 | 24 | | |

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|-------|------|-----|----|----|-----------|---------------------|-------|------|-----|----|----|-----------|---------------------|
| c 521 | 15.4 | 1.0 | 25 | 21 | AAC95775 | HLA DRB1 gene PCR | 594 | 15.4 | 1.0 | 30 | 21 | AAA46336 | PCR primer used to |
| c 522 | 15.4 | 1.0 | 25 | 21 | AAC96368 | HLA DPB1 gene PCR | 595 | 15.4 | 1.0 | 30 | 22 | AAH91290 | Human inflammatory |
| c 523 | 15.4 | 1.0 | 25 | 21 | AAC96647 | HLA DRB3 gene PC | c 596 | 15.4 | 1.0 | 31 | 14 | AAO52037 | B-cell mRNA ribozym |
| c 524 | 15.4 | 1.0 | 25 | 22 | ABA82054 | Zmami gene region | 597 | 15.4 | 1.0 | 31 | 19 | AAV67943 | Nucleotide fragmen |
| c 525 | 15.4 | 1.0 | 25 | 22 | AAI62152 | Soybean 318013 reg | 598 | 15.4 | 1.0 | 31 | 19 | AAV67950 | Nucleotide fragmen |
| c 526 | 15.4 | 1.0 | 25 | 22 | AAH38063 | SNP specific SNPE | 599 | 15.4 | 1.0 | 31 | 19 | AAV67719 | Nucleotide fragmen |
| c 527 | 15.4 | 1.0 | 25 | 22 | AAE747107 | Chimeric antisense | 600 | 15.4 | 1.0 | 31 | 19 | AAV67605 | Nucleotide fragmen |
| c 528 | 15.4 | 1.0 | 25 | 22 | AAE44570 | Mouse DSS-induced | c 601 | 15.4 | 1.0 | 31 | 20 | AAH68897 | Sequence of primer |
| c 529 | 15.4 | 1.0 | 26 | 17 | AAH292521 | Tag sequence of a | 602 | 15.4 | 1.0 | 31 | 21 | AAI79015 | Human genomic DNA |
| c 530 | 15.4 | 1.0 | 26 | 17 | AAH29728 | Hct-1 3' PCR prime | 603 | 15.4 | 1.0 | 31 | 21 | AAI29912 | Human single nucle |
| c 531 | 15.4 | 1.0 | 26 | 18 | AAH76097 | Human histidine de | c 604 | 15.4 | 1.0 | 31 | 22 | AAI29951 | Human single nucle |
| c 532 | 15.4 | 1.0 | 26 | 20 | AAH53302 | Histidine decarbox | c 605 | 15.4 | 1.0 | 31 | 22 | AAI30007 | Human single nucle |
| c 533 | 15.4 | 1.0 | 26 | 20 | AAH53238 | Primer for amplify | c 606 | 15.4 | 1.0 | 31 | 22 | AAI30038 | Human single nucle |
| c 534 | 15.4 | 1.0 | 26 | 20 | AAH18823 | Mitochondrial accon | 607 | 15.4 | 1.0 | 31 | 22 | AAI30491 | Human single nucle |
| c 535 | 15.4 | 1.0 | 26 | 20 | AAH18654 | Human p53 gene PCR | 608 | 15.4 | 1.0 | 31 | 22 | AAH57503 | Hen-egg ovalbumin |
| c 536 | 15.4 | 1.0 | 26 | 21 | AAH19467 | Human histidine de | c 609 | 15.4 | 1.0 | 31 | 23 | ABH97575 | Endogenous human G |
| c 537 | 15.4 | 1.0 | 26 | 21 | AAH33345 | Low adenostine antl | c 610 | 15.4 | 1.0 | 31 | 23 | ABH97818 | Non-endogenous hum |
| c 538 | 15.4 | 1.0 | 27 | 18 | AAH73588 | Mouse flt-1 VEGF r | c 611 | 15.4 | 1.0 | 31 | 23 | ABH97819 | Non-endogenous hum |
| c 539 | 15.4 | 1.0 | 27 | 18 | AAH72024 | Mouse KDR VEGF rec | 612 | 15.4 | 1.0 | 32 | 7 | AAH60026 | 3'-5' sequence of |
| c 540 | 15.4 | 1.0 | 27 | 18 | AAH70593 | Human KDR VEGF re | 613 | 15.4 | 1.0 | 32 | 13 | AAO23834 | Primer RHVKA4BAC |
| c 541 | 15.4 | 1.0 | 27 | 18 | AAH68072 | Human flt1 VEGF re | c 614 | 15.4 | 1.0 | 32 | 13 | AAO33629 | Upstream sequence |
| c 542 | 15.4 | 1.0 | 27 | 18 | AAH93830 | Phosphodiester oli | c 615 | 15.4 | 1.0 | 32 | 19 | AAH40127 | PCR primer used to |
| c 543 | 15.4 | 1.0 | 27 | 18 | AAH93833 | Phosphodiester oli | 616 | 15.4 | 1.0 | 32 | 20 | AAH40131 | Allelic ladder, DL |
| c 544 | 15.4 | 1.0 | 27 | 19 | AAH75981 | DEN-2 cloning/sequ | c 617 | 15.4 | 1.0 | 32 | 22 | AAH90466 | Human tumour necro |
| c 545 | 15.4 | 1.0 | 27 | 19 | AAH55900 | PKR related sequen | 618 | 15.4 | 1.0 | 33 | 17 | AAH79578 | Label extender oli |
| c 546 | 15.4 | 1.0 | 27 | 19 | AAH29745 | Probe used to exam | 619 | 15.4 | 1.0 | 33 | 17 | AAH11289 | Primer PCCLU571.se |
| c 547 | 15.4 | 1.0 | 27 | 19 | AAH09822 | Sequence encoding | c 620 | 15.4 | 1.0 | 33 | 19 | AAH41525 | Nucleotide sequenc |
| c 548 | 15.4 | 1.0 | 27 | 20 | AAH28031 | Adipogenesis inhnb | c 621 | 15.4 | 1.0 | 33 | 20 | AAH89921 | Sequence of primer |
| c 549 | 15.4 | 1.0 | 27 | 20 | AAH65322 | Receptor protein t | c 622 | 15.4 | 1.0 | 33 | 20 | AAH65018 | Human p selectin I |
| c 550 | 15.4 | 1.0 | 27 | 21 | AAH93949 | CaM Target probe | 623 | 15.4 | 1.0 | 33 | 21 | AAH57922 | Primer used to amp |
| c 551 | 15.4 | 1.0 | 27 | 21 | AAH60098 | PCR primer for neu | 624 | 15.4 | 1.0 | 33 | 21 | AAH61401 | Rubisco ssu transl |
| c 552 | 15.4 | 1.0 | 27 | 21 | AAH62012 | Hammerhead ribozym | 625 | 15.4 | 1.0 | 33 | 21 | AAH39430 | Glyb sticky-feet p |
| c 553 | 15.4 | 1.0 | 27 | 22 | AAH21697 | Imperfect direct r | 626 | 15.4 | 1.0 | 33 | 21 | AAH30644 | Human G protein-co |
| c 554 | 15.4 | 1.0 | 27 | 22 | AAH66874 | Nucleotide sequenc | c 627 | 15.4 | 1.0 | 33 | 22 | AAH54450 | Primer used to gen |
| c 555 | 15.4 | 1.0 | 27 | 22 | AAH66905 | Nucleotide sequenc | c 628 | 15.4 | 1.0 | 33 | 22 | AAH58311 | PCR primer IR used |
| c 556 | 15.4 | 1.0 | 27 | 22 | AAH19666 | CP2 PCR primer use | 629 | 15.4 | 1.0 | 33 | 24 | ABH03756 | Human zinc finger |
| c 557 | 15.4 | 1.0 | 27 | 22 | AAH25839 | Adipogenesis inhnb | c 630 | 15.4 | 1.0 | 34 | 18 | AAH50882 | Primer for HLA C1a |
| c 558 | 15.4 | 1.0 | 27 | 22 | AAH87708 | Human glutathione | 631 | 15.4 | 1.0 | 34 | 19 | AAH59224 | 5'phosphorylated o |
| c 559 | 15.4 | 1.0 | 28 | 14 | AAH48522 | PCR primer for amp | 632 | 15.4 | 1.0 | 34 | 19 | AAH59224 | Oligonucleotide SE |
| c 560 | 15.4 | 1.0 | 28 | 20 | AAH30762 | Human thrombin cat | 633 | 15.4 | 1.0 | 34 | 19 | AAH12491 | Oligonucleotide SE |
| c 561 | 15.4 | 1.0 | 28 | 21 | AAH64491 | Primer for tritose | 634 | 15.4 | 1.0 | 34 | 19 | AAH12495 | PCR primer FDG1H3. |
| c 562 | 15.4 | 1.0 | 28 | 22 | AAH44825 | PCR primer specific | 635 | 15.4 | 1.0 | 34 | 20 | AAH77434 | PCR primer FDG1H3. |
| c 563 | 15.4 | 1.0 | 28 | 22 | AAH30298 | Candida tropicalis | 636 | 15.4 | 1.0 | 34 | 20 | AAH32829 | PCR primer FDG1H3. |
| c 564 | 15.4 | 1.0 | 28 | 24 | AAH17379 | 3'-PCR primer for | 637 | 15.4 | 1.0 | 34 | 20 | AAH30027 | DNA oligonucleotid |
| c 565 | 15.4 | 1.0 | 29 | 15 | AAH055696 | PCR primer for hum | 638 | 15.4 | 1.0 | 34 | 21 | AAH96962 | PCR primer FDG1H3 |
| c 567 | 15.4 | 1.0 | 29 | 17 | AAH30324 | Probe Nax 613. SY | 639 | 15.4 | 1.0 | 34 | 21 | AAH90308 | KTPp17 PCR primer, |
| c 568 | 15.4 | 1.0 | 29 | 17 | AAH30325 | T cell receptor be | c 640 | 15.4 | 1.0 | 34 | 22 | AAH50236 | Bacterial 23S/5S R |
| c 569 | 15.4 | 1.0 | 29 | 18 | AAH73427 | S182 gene mutation | c 641 | 15.4 | 1.0 | 34 | 24 | AAH172078 | Xcds1 cloning prim |
| c 570 | 15.4 | 1.0 | 29 | 18 | AAH59861 | Antisense primer # | 642 | 15.4 | 1.0 | 34 | 24 | AAH172080 | tal-d region of Rp |
| c 571 | 15.4 | 1.0 | 29 | 18 | AAH63404 | Oligonucleotide an | 643 | 15.4 | 1.0 | 35 | 13 | AAO25647 | Degenerat PCR prim |
| c 572 | 15.4 | 1.0 | 29 | 20 | AAH17734 | Human TIB-2 hamme | 645 | 15.4 | 1.0 | 35 | 18 | AAH04911 | Amplification cont |
| c 573 | 15.4 | 1.0 | 29 | 20 | AAH19489 | Integrin alpha 6 s | 646 | 15.4 | 1.0 | 35 | 19 | AAH38803 | Human cytohesin-2 |
| c 574 | 15.4 | 1.0 | 29 | 20 | AAH19623 | Integrin alpha 6 s | 647 | 15.4 | 0.9 | 35 | 19 | AAH58875 | Human cytohesin-2 |
| c 575 | 15.4 | 1.0 | 29 | 20 | AAH22346 | Integrin subunit b | 648 | 15.2 | 0.9 | 35 | 19 | AAH57977 | LRP5 exon primer 5 |
| c 576 | 15.4 | 1.0 | 29 | 20 | AAH55759 | Probe for human se | 649 | 15.2 | 0.9 | 35 | 20 | AAH92183 | PCR primer used to |
| c 577 | 15.4 | 1.0 | 29 | 20 | AAH91903 | Human C-rat hamme | c 650 | 15.2 | 0.9 | 35 | 20 | AAH62287 | Caenorhabditis ele |
| c 578 | 15.4 | 1.0 | 29 | 20 | AAH91876 | Human C-rat hamme | c 651 | 15.2 | 0.9 | 35 | 20 | AAH13510 | RT-PCR primer 19 u |
| c 579 | 15.4 | 1.0 | 29 | 20 | AAH91605 | Human C-rat hamme | c 652 | 15.2 | 0.9 | 35 | 20 | AAH67611 | Human cytohesin-2 |
| c 580 | 15.4 | 1.0 | 29 | 21 | AAH00450 | Hammerhead ribozym | c 653 | 15.2 | 0.9 | 35 | 21 | AAH05918 | COX II sense probe |
| c 581 | 15.4 | 1.0 | 29 | 21 | AAH04144 | Hammerhead ribozym | 654 | 15.2 | 0.9 | 35 | 21 | AAH52598 | Primer hts-4A, use |
| c 582 | 15.4 | 1.0 | 29 | 21 | AAH05217 | Hammerhead ribozym | 655 | 15.2 | 0.9 | 35 | 22 | AAH97576 | Human gene single |
| c 583 | 15.4 | 1.0 | 29 | 21 | AAH23904 | Oestrogen receptor | 656 | 15.2 | 0.9 | 35 | 22 | AAH55728 | PCR primer R2. Pa |
| c 584 | 15.4 | 1.0 | 29 | 21 | AAH24104 | Oestrogen receptor | c 657 | 15.2 | 0.9 | 35 | 22 | AAH58882 | COXII probe #5. H |
| c 585 | 15.4 | 1.0 | 29 | 21 | AAH24624 | Oestrogen receptor | 658 | 15.2 | 0.9 | 35 | 22 | AAH05723 | Intronic primer fo |
| c 586 | 15.4 | 1.0 | 29 | 21 | AAH03873 | Polymorphic fragme | c 659 | 15.2 | 0.9 | 35 | 22 | AAH09270 | Human biallelic po |
| c 587 | 15.4 | 1.0 | 29 | 21 | AAH59547 | Hydriatisation prob | c 660 | 15.2 | 0.9 | 35 | 13 | AAO32317 | HUVKABACK, a kapp |
| c 588 | 15.4 | 1.0 | 29 | 22 | AAH58559 | Cross-linking prob | 661 | 15.2 | 0.9 | 35 | 14 | AAO51816 | mdr-1 mRNA ribozym |
| c 589 | 15.4 | 1.0 | 30 | 17 | AAH41648 | Reconstitution enz | 662 | 15.2 | 0.9 | 35 | 16 | AAO21442 | PKD1 gene PCR prim |
| c 590 | 15.4 | 1.0 | 30 | 18 | AAH90839 | Primer 118 for pla | 663 | 15.2 | 0.9 | 35 | 17 | AAH08808 | PKD1 OX114 mutatio |
| c 591 | 15.4 | 1.0 | 30 | 18 | AAH73355 | Primer SK462 for d | c 664 | 15.2 | 0.9 | 35 | 17 | AAO33246 | PCR primer #70 to |
| c 592 | 15.4 | 1.0 | 30 | 18 | AAH47653 | Primer for bacteri | c 665 | 15.2 | 0.9 | 35 | 24 | AAH95670 | Primer for SSCP an |
| c 593 | 15.4 | 1.0 | 30 | 18 | AAH45429 | Human transforming | c 666 | 15.2 | 0.9 | 35 | 24 | AAH94895 | Human G protein co |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|----------|---------------------|-------|------|-----|----|----|-----------|---------------------|
| c 667 | 15.2 | 0.9 | 24 | 18 | AAT51745 | Orange pectin meth | c 740 | 15.2 | 0.9 | 32 | 21 | AAA40236 | Construct PC2-m9#5 |
| c 668 | 15.2 | 0.9 | 24 | 19 | AAV56567 | Human Dp2.5 APC pr | 741 | 15.2 | 0.9 | 32 | 21 | AAAI1691 | Human GABA-B recep |
| c 669 | 15.2 | 0.9 | 24 | 19 | AAT96284 | Primer for SSCP an | 742 | 15.2 | 0.9 | 32 | 21 | AAZ89502 | Human GABA-B recep |
| 670 | 15.2 | 0.9 | 24 | 21 | AAC82397 | B. cereus 16S rRNA | 743 | 15.2 | 0.9 | 32 | 22 | AAH91474 | Human inflammatory |
| c 671 | 15.2 | 0.9 | 24 | 21 | AAC82401 | Listeria sp 16S rR | c 744 | 15.2 | 0.9 | 32 | 22 | AB197561 | Endogenous human G |
| c 672 | 15.2 | 0.9 | 24 | 21 | AAA93569 | Human APC (DP2.5) | c 745 | 15.2 | 0.9 | 32 | 23 | AB197563 | Endogenous human G |
| c 673 | 15.2 | 0.9 | 24 | 21 | AA544450 | SPINK5 3' splice a | c 746 | 15.2 | 0.9 | 32 | 23 | AB197565 | Endogenous human G |
| c 674 | 15.2 | 0.9 | 25 | 15 | AAQ72565 | Adenomatous polyo | c 747 | 15.2 | 0.9 | 32 | 23 | AB197567 | Endogenous human G |
| c 675 | 15.2 | 0.9 | 25 | 20 | AAH88016 | Calcium channel be | c 748 | 15.2 | 0.9 | 32 | 23 | AB197569 | Endogenous human G |
| c 676 | 15.2 | 0.9 | 25 | 21 | AAC95936 | HLA HLA-B gene PCR | c 749 | 15.2 | 0.9 | 32 | 23 | AB197737 | Non-endogenous hum |
| c 677 | 15.2 | 0.9 | 25 | 22 | AAD10094 | Clone 1, 46 and 18 | c 750 | 15.2 | 0.9 | 32 | 23 | AB197738 | Non-endogenous hum |
| c 678 | 15.2 | 0.9 | 25 | 24 | AAD23668 | Nicotiana tabacum | c 751 | 15.2 | 0.9 | 32 | 24 | AA595862 | MYB factor-1 (MYB- |
| c 679 | 15.2 | 0.9 | 26 | 22 | AAA89168 | Glyceraledehyde 6-p | c 752 | 15.2 | 0.9 | 32 | 24 | AA595873 | MYB factor-1 (MYB- |
| c 680 | 15.2 | 0.9 | 27 | 17 | AAT35613 | M.leprae pre-rRNA | c 753 | 15.2 | 0.9 | 33 | 13 | AAQ29687 | Oligonucleotide pr |
| c 681 | 15.2 | 0.9 | 27 | 18 | AAT46979 | Xba-Primer for str | c 754 | 15.2 | 0.9 | 33 | 14 | AAQ42985 | 4C10 anti-Idiotyp |
| c 682 | 15.2 | 0.9 | 27 | 19 | AAV96785 | Potato citrate syn | c 755 | 15.2 | 0.9 | 33 | 14 | AAQ43501 | Sequence consensus |
| c 683 | 15.2 | 0.9 | 27 | 19 | AAV42924 | PCR primer used to | c 756 | 15.2 | 0.9 | 33 | 14 | AAQ44324 | HTLV-1 amplifier p |
| c 684 | 15.2 | 0.9 | 27 | 19 | AAV24393 | Target sequence #5 | c 757 | 15.2 | 0.9 | 33 | 16 | AAO78559 | Gene-specific prim |
| c 685 | 15.2 | 0.9 | 27 | 19 | AAV12976 | Mycobacterium lepr | c 758 | 15.2 | 0.9 | 33 | 17 | AAT742150 | Gene-specific prim |
| c 686 | 15.2 | 0.9 | 27 | 22 | AAH38795 | SNP specific SNPE | c 759 | 15.2 | 0.9 | 33 | 18 | AAT80848 | Gene specific prim |
| c 687 | 15.2 | 0.9 | 28 | 17 | AAT06950 | Human CD23 promote | c 760 | 15.2 | 0.9 | 33 | 19 | AAV44031 | Lactococcus lactis |
| c 688 | 15.2 | 0.9 | 28 | 19 | AAV29612 | Human Epi receptor | c 761 | 15.2 | 0.9 | 33 | 19 | AAV15834 | Primer for interfe |
| c 689 | 15.2 | 0.9 | 28 | 21 | AAA98365 | D. vulgaris cytoch | c 762 | 15.2 | 0.9 | 33 | 20 | AAH35508 | PCR primer used to |
| c 690 | 15.2 | 0.9 | 29 | 18 | AAV02190 | Human foetal liver | c 763 | 15.2 | 0.9 | 33 | 20 | AAH08855 | BCOADC subunit E1 |
| c 691 | 15.2 | 0.9 | 29 | 20 | AAAI6847 | Avyl hydrocarbon n | c 764 | 15.2 | 0.9 | 33 | 20 | AAV65129 | Lactococcus Ll.ltr |
| c 692 | 15.2 | 0.9 | 29 | 20 | AAA21731 | Integrin subunit b | c 765 | 15.2 | 0.9 | 33 | 21 | AAZ45167 | PCR primer NdelFR5 |
| c 693 | 15.2 | 0.9 | 29 | 20 | AAH90865 | Oligonucleotide pr | c 766 | 15.2 | 0.9 | 33 | 22 | AAH20896 | Human LINGFR signal |
| c 694 | 15.2 | 0.9 | 29 | 20 | AAV92328 | Human A-Raf hamme | c 767 | 15.2 | 0.9 | 33 | 22 | AAA91079 | PCR primer FLTD2- |
| c 695 | 15.2 | 0.9 | 29 | 20 | AAV91785 | Human C-Raf hamme | c 768 | 15.2 | 0.9 | 33 | 24 | AAI66341 | Human ataxia telan |
| c 696 | 15.2 | 0.9 | 29 | 21 | AAFO0600 | Hammerhead ribozym | c 769 | 15.2 | 0.9 | 34 | 15 | AAO73571 | Enhancer element e |
| c 697 | 15.2 | 0.9 | 29 | 21 | AAFO0681 | Hammerhead ribozym | c 770 | 15.2 | 0.9 | 34 | 17 | AAT42888 | ss circular oligo |
| c 698 | 15.2 | 0.9 | 29 | 21 | AAFO1338 | Hammerhead ribozym | c 771 | 15.2 | 0.9 | 34 | 19 | AAV37302 | PCR primer for hum |
| c 699 | 15.2 | 0.9 | 29 | 21 | AAFO3805 | Hammerhead ribozym | c 772 | 15.2 | 0.9 | 34 | 19 | AAV17967 | Herpesvirus saimiri |
| c 700 | 15.2 | 0.9 | 29 | 21 | AAFO6921 | Hammerhead ribozym | c 773 | 15.2 | 0.9 | 34 | 20 | AAZ06747 | PCR primer FR-Ndr |
| c 701 | 15.2 | 0.9 | 29 | 21 | AAA92451 | Hammerhead ribozym | c 774 | 15.2 | 0.9 | 34 | 20 | AAZ08801 | Plasmid pMOI21 con |
| c 702 | 15.2 | 0.9 | 29 | 21 | AAA03923 | Type C lectin PCR | c 775 | 15.2 | 0.9 | 34 | 21 | AAA60561 | Herpesvirus saimiri |
| c 703 | 15.2 | 0.9 | 29 | 22 | AAH73867 | Polymorphic fragme | c 776 | 15.2 | 0.9 | 34 | 22 | AA508269 | Human GPCR, hrp13 |
| c 704 | 15.2 | 0.9 | 30 | 14 | AAQ46794 | PCR primer #3. Un | c 777 | 15.2 | 0.9 | 34 | 22 | AAH73394 | Human PTP protein |
| c 705 | 15.2 | 0.9 | 30 | 17 | AAT36498 | Maize glutathione- | c 778 | 15.2 | 0.9 | 35 | 15 | AAQ55621 | N.meningitidis IM2 |
| c 706 | 15.2 | 0.9 | 30 | 17 | AAT16288 | Bovine TdT amplifi | c 779 | 15.2 | 0.9 | 35 | 15 | AAQ58704 | Glycoprotein expre |
| c 707 | 15.2 | 0.9 | 30 | 17 | AAO93318 | Primer HPI, specif | c 780 | 15.2 | 0.9 | 35 | 15 | AAQ58699 | Glycoprotein expre |
| c 708 | 15.2 | 0.9 | 30 | 18 | AAT80207 | Oestrogen response | c 781 | 15.2 | 0.9 | 35 | 16 | AAT03352 | Anti-IL-8 Mab 5.12 |
| c 709 | 15.2 | 0.9 | 30 | 18 | AAT73585 | Prothomone/prosept | c 782 | 15.2 | 0.9 | 35 | 16 | AAV03188 | Anti IL-8 antibody |
| c 710 | 15.2 | 0.9 | 30 | 19 | AAV45436 | Aspergillus oryzae | c 783 | 15.2 | 0.9 | 35 | 18 | AAT93557 | Murine Mab (5.12.1 |
| c 711 | 15.2 | 0.9 | 30 | 20 | AAH58633 | Bovine super villin | c 784 | 15.2 | 0.9 | 35 | 18 | AAT80068 | 3' primer for gp70 |
| c 712 | 15.2 | 0.9 | 30 | 21 | AAA37938 | MAGE-A3 HLA class | c 785 | 15.2 | 0.9 | 35 | 18 | AAT78552 | Monoclonal antibod |
| c 713 | 15.2 | 0.9 | 30 | 21 | AAA10271 | Human CD28 fragmen | c 786 | 15.2 | 0.9 | 35 | 19 | AAV55080 | Murine anti-IL-8 M |
| c 714 | 15.2 | 0.9 | 30 | 21 | AAZ55336 | Neisseria species | c 787 | 15.2 | 0.9 | 35 | 19 | AAV27450 | Streptococcus pneu |
| c 715 | 15.2 | 0.9 | 30 | 22 | AA509716 | Oat Beta-amyrin PC | c 788 | 15.2 | 0.9 | 35 | 19 | AAV07321 | Nucleotide sequenc |
| c 716 | 15.2 | 0.9 | 30 | 22 | AA509717 | Oat Beta-amyrin PC | c 789 | 15.2 | 0.9 | 35 | 19 | AAV10274 | Murine monoclonal |
| c 717 | 15.2 | 0.9 | 31 | 13 | AAQ28343 | Human nerve cell a | c 790 | 15.2 | 0.9 | 35 | 19 | AAV06429 | Murine Mab (5.12.1 |
| c 718 | 15.2 | 0.9 | 31 | 16 | AAQ93798 | Human stromelysin | c 791 | 15.2 | 0.9 | 35 | 20 | AAZ21055 | pR3B03 env fusion |
| c 719 | 15.2 | 0.9 | 31 | 17 | AAT34512 | RRAM sense and an | c 792 | 15.2 | 0.9 | 35 | 20 | AAZ90549 | Murine 5.12.14 ant |
| c 720 | 15.2 | 0.9 | 31 | 18 | AAH62436 | Thrombin bound star | c 793 | 15.2 | 0.9 | 35 | 20 | AAZ27584 | Transcriptional co |
| c 721 | 15.2 | 0.9 | 31 | 18 | AAT62467 | Thrombin receptor | c 794 | 15.2 | 0.9 | 35 | 21 | AAH65476 | Murine anti-IL-8 a |
| c 722 | 15.2 | 0.9 | 31 | 19 | AAV18833 | Primer for murine | c 795 | 15.2 | 0.9 | 35 | 21 | AAH70543 | Forward PCR primer |
| c 723 | 15.2 | 0.9 | 31 | 21 | AAV1968 | Human VEGF-X E. co | c 796 | 15.2 | 0.9 | 35 | 21 | AAZ87937 | Murine anti-IL-8 a |
| c 724 | 15.2 | 0.9 | 31 | 21 | AAV18734 | Human genomic DNA | c 797 | 15.2 | 0.9 | 35 | 22 | AAI64362 | galF/K gene PCR pr |
| c 725 | 15.2 | 0.9 | 31 | 21 | AAZ99574 | PCR primer used to | c 798 | 15.2 | 0.9 | 35 | 22 | AAH59781 | HSV-2 glycoprotein |
| c 726 | 15.2 | 0.9 | 31 | 21 | AAZ39108 | Gossypium hirsutu | c 799 | 15.2 | 0.9 | 35 | 22 | AAH53136 | IGF-1 oligonucleot |
| c 727 | 15.2 | 0.9 | 31 | 22 | AA512454 | Probe #1 used in q | c 800 | 15.2 | 0.9 | 35 | 22 | AAH27502 | Human c-Raf kinase |
| c 728 | 15.2 | 0.9 | 31 | 22 | AAI16214 | Human uPAR gene 3' | c 801 | 15.2 | 0.9 | 35 | 22 | AAH36463 | Chimeric 2'-O-meth |
| c 729 | 15.2 | 0.9 | 31 | 22 | AAI29726 | Human single nucle | c 802 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human c-Raf and de |
| c 730 | 15.2 | 0.9 | 31 | 22 | AAI30461 | Human single nucle | c 803 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human c-Raf and de |
| c 731 | 15.2 | 0.9 | 31 | 22 | AAI31298 | Human single nucle | c 804 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human c-Raf kinase |
| c 732 | 15.2 | 0.9 | 31 | 24 | AAI18575 | Novel human envelo | c 805 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Oligonucleotide us |
| c 733 | 15.2 | 0.9 | 32 | 15 | AAO77863 | Human alpha-galact | c 806 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Chimeric antisense |
| c 734 | 15.2 | 0.9 | 32 | 15 | AAO62314 | Somatoliberin rece | c 807 | 15.2 | 0.9 | 35 | 20 | AAH36463 | c-Raf antisense ch |
| c 735 | 15.2 | 0.9 | 32 | 15 | AAO66244 | Alpha-galactosidas | c 808 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human c-Raf kinase |
| c 736 | 15.2 | 0.9 | 32 | 18 | AAT91748 | PSAR PCR primer 2. | c 809 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human c-Raf kinase |
| c 737 | 15.2 | 0.9 | 32 | 20 | AAH86014 | PCR primer used to | c 810 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Znaxi gene region |
| c 738 | 15.2 | 0.9 | 32 | 20 | AAH80206 | Human gamma-aminob | c 811 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Human oestrogen re |
| c 739 | 15.2 | 0.9 | 32 | 21 | AAA40236 | Construct pc2-m9#5 | c 812 | 15.2 | 0.9 | 35 | 20 | AAH36463 | Primer CLKB for MA |

| | | | | | | |
|-----|----|-----|----|----|-----------|---------------------|
| 813 | 15 | 0.9 | 23 | 17 | AA13814 | Mycoplasma protect |
| 814 | 15 | 0.9 | 23 | 21 | AAA9098 | Human Rab24 PCR pr |
| 815 | 15 | 0.9 | 23 | 21 | AA63344 | Dog genomic marker |
| 816 | 15 | 0.9 | 24 | 15 | AA05338 | Igg primer. synth |
| 817 | 15 | 0.9 | 24 | 16 | AA07510 | E.carotovora nucle |
| 818 | 15 | 0.9 | 24 | 16 | AAV03178 | 3' Igg PCR primer |
| 819 | 15 | 0.9 | 24 | 19 | AAV07904 | Cobra venom mocaarh |
| 820 | 15 | 0.9 | 24 | 19 | AAV52833 | Puro.1 PCR primer |
| 821 | 15 | 0.9 | 24 | 19 | AAV41254 | Nucleotide sequenc |
| 822 | 15 | 0.9 | 24 | 19 | AAV72123 | Synthetic human pr |
| 823 | 15 | 0.9 | 24 | 19 | AAV12155 | Pseudomonas exotox |
| 824 | 15 | 0.9 | 24 | 20 | AA235919 | Streptococcus pneu |
| 825 | 15 | 0.9 | 24 | 20 | AAV04205 | Truncated ICAM185 |
| 826 | 15 | 0.9 | 24 | 21 | AAA89948 | PCR primer used to |
| 827 | 15 | 0.9 | 24 | 21 | AA63677 | PCR primer U11 us |
| 828 | 15 | 0.9 | 24 | 21 | AAA09984 | Primer Puro.1 for |
| 829 | 15 | 0.9 | 24 | 21 | AA250158 | Reverse primer RP3 |
| 830 | 15 | 0.9 | 24 | 22 | AA020338 | PCR primer, D182E |
| 831 | 15 | 0.9 | 24 | 22 | AA080143 | PCR primer D182E (|
| 832 | 15 | 0.9 | 24 | 22 | AAE84286 | Human GM-CSF rever |
| 833 | 15 | 0.9 | 24 | 22 | AA164546 | Human polypeptide- |
| 834 | 15 | 0.9 | 24 | 24 | AB183922 | Capture oligonucle |
| 835 | 15 | 0.9 | 24 | 24 | AB183923 | Capture oligonucle |
| 836 | 15 | 0.9 | 24 | 24 | AB185172 | Capture oligonucle |
| 837 | 15 | 0.9 | 24 | 24 | AB185173 | Capture oligonucle |
| 838 | 15 | 0.9 | 24 | 24 | AB190432 | Capture oligonucle |
| 839 | 15 | 0.9 | 24 | 24 | AB190433 | Capture oligonucle |
| 840 | 15 | 0.9 | 25 | 19 | AAV82813 | Sense PCR primer u |
| 841 | 15 | 0.9 | 25 | 21 | AA688878 | Bacteriophage 96 O |
| 842 | 15 | 0.9 | 25 | 21 | AAE85355 | PCR primer used to |
| 843 | 15 | 0.9 | 25 | 24 | ABA04832 | Human PCR primer z |
| 844 | 15 | 0.9 | 25 | 24 | AA169294 | Bacillus sp alkali |
| 845 | 15 | 0.9 | 26 | 20 | AAV59074 | MOP7 PCR primer OL |
| 846 | 15 | 0.9 | 26 | 21 | AAA10005 | Primer CDPuro-2 fo |
| 847 | 15 | 0.9 | 26 | 21 | AA171718 | Primer CDPuro-2 fo |
| 848 | 15 | 0.9 | 27 | 8 | AAV70800 | Mutant S152 encodi |
| 849 | 15 | 0.9 | 27 | 18 | AAQ14480 | Consensus tandem r |
| 850 | 15 | 0.9 | 27 | 18 | AAV74131 | Mouse flt-1 VEGF r |
| 851 | 15 | 0.9 | 27 | 18 | AAV74132 | Mouse flt-1 VEGF r |
| 852 | 15 | 0.9 | 27 | 18 | AAV74137 | Mouse flt-1 VEGF r |
| 853 | 15 | 0.9 | 27 | 18 | AAV73968 | Mouse flt-1 VEGF r |
| 854 | 15 | 0.9 | 27 | 18 | AAV73869 | Mouse flt-1 VEGF r |
| 855 | 15 | 0.9 | 27 | 18 | AAV67790 | Human fltl VEGF re |
| 856 | 15 | 0.9 | 27 | 18 | AAV67531 | Human fltl VEGF re |
| 857 | 15 | 0.9 | 27 | 18 | AAV98517 | CDNA synthesis pri |
| 858 | 15 | 0.9 | 27 | 19 | AAV98610 | Human BGF-R hamme |
| 859 | 15 | 0.9 | 27 | 19 | AAV96844 | Potato citrate syn |
| 860 | 15 | 0.9 | 27 | 19 | AAV54652 | Human B1P gene fra |
| 861 | 15 | 0.9 | 27 | 19 | AAV11730 | Human G-protein co |
| 862 | 15 | 0.9 | 27 | 19 | AAV21948 | Antisense oligo NB |
| 863 | 15 | 0.9 | 27 | 19 | AAV89987 | Primer HT3r-2 for |
| 864 | 15 | 0.9 | 27 | 19 | AA194188 | Primer HT3r-2 for |
| 865 | 15 | 0.9 | 27 | 20 | AA228705 | Oligonucleotide T3 |
| 866 | 15 | 0.9 | 27 | 20 | AA227148 | Caenorhabditis ele |
| 867 | 15 | 0.9 | 27 | 20 | AAV89531 | PCR primer HT3r-2 |
| 868 | 15 | 0.9 | 27 | 20 | AAV79162 | Primer C(micro-in) |
| 869 | 15 | 0.9 | 27 | 21 | AA263100 | Hammerhead ribozym |
| 870 | 15 | 0.9 | 27 | 21 | AA247307 | PCR primer #5 used |
| 871 | 15 | 0.9 | 28 | 17 | AA150352 | Primer 5'H33 for H |
| 872 | 15 | 0.9 | 28 | 19 | AAV29286 | PCR primer-2 for s |
| 873 | 15 | 0.9 | 29 | 19 | AAV20585 | Human MMP7 PCR 3'- |
| 874 | 15 | 0.9 | 29 | 19 | AAV09136 | Probe for clone G5 |
| 875 | 15 | 0.9 | 29 | 19 | AAV00068 | Human G-protein co |
| 876 | 15 | 0.9 | 29 | 20 | AA16784 | Aryl hydrocarbon n |
| 877 | 15 | 0.9 | 29 | 20 | AA17848 | Human T1E-2 hamme |
| 878 | 15 | 0.9 | 29 | 20 | AAV77562 | Human secreted pro |
| 879 | 15 | 0.9 | 29 | 20 | AAV3941 | Human TNF-alpha co |
| 880 | 15 | 0.9 | 29 | 20 | AAV91896 | Human C-raif hamme |
| 881 | 15 | 0.9 | 29 | 21 | AAV00381 | Hammerhead ribozym |
| 882 | 15 | 0.9 | 29 | 21 | AAV01280 | Hammerhead ribozym |
| 883 | 15 | 0.9 | 29 | 21 | AAV01475 | Hammerhead ribozym |
| 884 | 15 | 0.9 | 29 | 21 | AAV01519 | Hammerhead ribozym |
| 885 | 15 | 0.9 | 29 | 21 | AAV05718 | Hammerhead ribozym |
| 886 | 15 | 0.9 | 29 | 21 | AA23935 | Oestrogen receptor |
| 887 | 15 | 0.9 | 29 | 21 | AA24069 | Oestrogen receptor |
| 888 | 15 | 0.9 | 29 | 21 | AA24314 | Oestrogen receptor |
| 889 | 15 | 0.9 | 29 | 21 | AA245641 | PCR primer 2 used |
| 890 | 15 | 0.9 | 29 | 21 | AA249664 | PCR primer-18 used |
| 891 | 15 | 0.9 | 29 | 21 | AA260010 | Probe for human se |
| 892 | 15 | 0.9 | 30 | 12 | AAQ10137 | Probe 1651 to the |
| 893 | 15 | 0.9 | 30 | 12 | AAQ12167 | BPV-1 E2 antisense |
| 894 | 15 | 0.9 | 30 | 14 | AA050066 | BPV-1 E2 gene (tra |
| 895 | 15 | 0.9 | 30 | 15 | AA077889 | Neutral thread prot |
| 896 | 15 | 0.9 | 30 | 16 | AAV01708 | Peptide nucleic ac |
| 897 | 15 | 0.9 | 30 | 17 | AAV00459 | BPV-1 E2 antisense |
| 898 | 15 | 0.9 | 30 | 17 | AAV27743 | Neutral thread prot |
| 899 | 15 | 0.9 | 30 | 19 | AAV53781 | Bovine papillomavi |
| 900 | 15 | 0.9 | 30 | 19 | AAV77320 | Altrial natriuretic |
| 901 | 15 | 0.9 | 30 | 19 | AAV30152 | Bovine papillomavi |
| 902 | 15 | 0.9 | 30 | 21 | AAV49415 | Arthrobacter hydan |
| 903 | 15 | 0.9 | 30 | 21 | AA254883 | Neisseria species |
| 904 | 15 | 0.9 | 30 | 22 | AA512398 | Hammerhead ribozym |
| 905 | 15 | 0.9 | 30 | 22 | AAH48802 | Hammerhead ribozym |
| 906 | 15 | 0.9 | 30 | 22 | AAH21915 | Bovine TSH primer |
| 907 | 15 | 0.9 | 30 | 22 | AAE60687 | Mouse digital sequ |
| 908 | 15 | 0.9 | 30 | 22 | AAE63904 | BPV-1 E2 antisense |
| 909 | 15 | 0.9 | 30 | 22 | AAE61720 | Chromobacterium SC |
| 910 | 15 | 0.9 | 31 | 13 | AAQ26748 | Human TSHR associa |
| 911 | 15 | 0.9 | 31 | 13 | AAQ50258 | Protease-A gene pr |
| 912 | 15 | 0.9 | 31 | 15 | AAQ55686 | HIV env INS mutage |
| 913 | 15 | 0.9 | 31 | 15 | AAQ58607 | ELAM-1 primer #1. |
| 914 | 15 | 0.9 | 31 | 15 | AAQ58625 | Sequence of primer |
| 915 | 15 | 0.9 | 31 | 15 | AAQ58625 | primer used for pr |
| 916 | 15 | 0.9 | 31 | 15 | AAQ67165 | primer for amplify |
| 917 | 15 | 0.9 | 31 | 16 | AAV34353 | LAC4 terminator sp |
| 918 | 15 | 0.9 | 31 | 16 | AAV00851 | MOmV LTR 3' prime |
| 919 | 15 | 0.9 | 31 | 16 | AAV05585 | Mouse brain p69 CD |
| 920 | 15 | 0.9 | 31 | 17 | AAQ80072 | Probe 2928 specifl |
| 921 | 15 | 0.9 | 31 | 18 | AAV80201 | Moloney murine leu |
| 922 | 15 | 0.9 | 31 | 18 | AAV78226 | Aquifex aspartate |
| 923 | 15 | 0.9 | 31 | 19 | AAV67991 | Physiologically ac |
| 924 | 15 | 0.9 | 31 | 19 | AAV43409 | Nucleotide fragmen |
| 925 | 15 | 0.9 | 31 | 21 | AA296689 | 5' PCR primer used |
| 926 | 15 | 0.9 | 31 | 21 | AA129628 | T cell antigen rec |
| 927 | 15 | 0.9 | 31 | 22 | AA129720 | Human single nucle |
| 928 | 15 | 0.9 | 31 | 22 | AA130217 | Human single nucle |
| 929 | 15 | 0.9 | 31 | 22 | AA130315 | Human single nucle |
| 930 | 15 | 0.9 | 31 | 22 | AA131070 | Human single nucle |
| 931 | 15 | 0.9 | 31 | 22 | AAV07247 | Human single nucle |
| 932 | 15 | 0.9 | 31 | 22 | AAV05039 | G protein-coupled |
| 933 | 15 | 0.9 | 31 | 23 | ABK06452 | Helicobacter pylor |
| 934 | 15 | 0.9 | 31 | 23 | ABK06452 | Human NCO DNAzyme |
| 935 | 15 | 0.9 | 32 | 14 | AAQ46762 | Human NCO DNAzyme |
| 936 | 15 | 0.9 | 32 | 14 | AAQ54108 | M.tuberculosis 23S |
| 937 | 15 | 0.9 | 32 | 14 | AAQ49304 | Branched probe str |
| 938 | 15 | 0.9 | 32 | 14 | AAQ52018 | Degenerin PCR prim |
| 939 | 15 | 0.9 | 32 | 18 | AAV47214 | B-cell mRNA ribozym |
| 940 | 15 | 0.9 | 32 | 19 | AAV66551 | PCR primer for pla |
| 941 | 15 | 0.9 | 32 | 19 | AAV60318 | PCR primer #78 for |
| 942 | 15 | 0.9 | 32 | 19 | AAV60318 | Oligonucleotide of |
| 943 | 15 | 0.9 | 32 | 20 | AAV61415 | Primer 082 for con |
| 944 | 15 | 0.9 | 32 | 21 | AAV61415 | Prenylcycteine car |
| 945 | 15 | 0.9 | 32 | 21 | AAV348487 | Cat flea HMV perit |
| 946 | 15 | 0.9 | 32 | 21 | AAV291576 | Pho A promoter/T. |
| 947 | 15 | 0.9 | 32 | 21 | AAV291576 | M13x11 translatio |
| 948 | 15 | 0.9 | 32 | 22 | AAH45482 | PCR primer specifl |
| 949 | 15 | 0.9 | 32 | 22 | AAH49971 | Bacterial 23S/5S R |
| 950 | 15 | 0.9 | 32 | 22 | AAH49981 | Bacterial 23S/5S R |
| 951 | 15 | 0.9 | 32 | 22 | AAH49981 | Bacterial 23S/5S R |
| 952 | 15 | 0.9 | 32 | 22 | AAH76776 | Bacterial 23S/5S R |
| 953 | 15 | 0.9 | 33 | 13 | AAV26594 | CMV-DNA target hyb |
| 954 | 15 | 0.9 | 33 | 13 | AAV26594 | Human angiotensin |
| 955 | 15 | 0.9 | 33 | 13 | AAV26594 | Predicted RELV end |
| 956 | 15 | 0.9 | 33 | 16 | AAV08216 | HCV antigen primer |
| 957 | 15 | 0.9 | 33 | 18 | AAV06345 | Amplification prim |
| 958 | 15 | 0.9 | 33 | 18 | AAV59169 | Phosphatidylinosit |
| 959 | 15 | 0.9 | 33 | 20 | AAV99756 | DNA polymerase lig |
| 960 | 15 | 0.9 | 33 | 20 | AAV99756 | M. luteus Rp-facto |

| | | | | | |
|-------|------|-----|----|----|-----------|
| C 959 | 15 | 0.9 | 33 | 21 | AA58710 |
| C 960 | 15 | 0.9 | 33 | 21 | AA2462255 |
| C 961 | 15 | 0.9 | 33 | 22 | AA165190 |
| C 962 | 15 | 0.9 | 33 | 22 | AA171319 |
| C 963 | 15 | 0.9 | 33 | 22 | AAE98180 |
| C 964 | 15 | 0.9 | 33 | 22 | AAE98180 |
| C 965 | 15 | 0.9 | 33 | 22 | AB1976636 |
| C 966 | 15 | 0.9 | 33 | 24 | AAAD22613 |
| C 967 | 15 | 0.9 | 33 | 24 | ABAO2129 |
| C 968 | 15 | 0.9 | 34 | 15 | AAO70133 |
| C 969 | 15 | 0.9 | 34 | 16 | AAO89931 |
| C 970 | 15 | 0.9 | 34 | 17 | AA128890 |
| C 971 | 15 | 0.9 | 34 | 17 | AA133030 |
| C 972 | 15 | 0.9 | 34 | 19 | AAV07479 |
| C 973 | 15 | 0.9 | 34 | 20 | AA587538 |
| C 974 | 15 | 0.9 | 34 | 21 | AAAO7310 |
| C 975 | 15 | 0.9 | 34 | 21 | AAAO5904 |
| C 976 | 15 | 0.9 | 34 | 21 | AA255462 |
| C 977 | 15 | 0.9 | 34 | 22 | AA513973 |
| C 978 | 15 | 0.9 | 34 | 22 | AA500728 |
| C 979 | 15 | 0.9 | 35 | 10 | AAAN0173 |
| C 980 | 15 | 0.9 | 35 | 18 | AA144106 |
| C 981 | 15 | 0.9 | 35 | 19 | AAV34318 |
| C 982 | 15 | 0.9 | 35 | 21 | AAAC3494 |
| C 983 | 15 | 0.9 | 35 | 21 | AAAC6356 |
| C 984 | 15 | 0.9 | 35 | 21 | AAAO6211 |
| C 985 | 15 | 0.9 | 35 | 21 | AA186377 |
| C 986 | 15 | 0.9 | 35 | 22 | AAAD1069 |
| C 987 | 15 | 0.9 | 35 | 22 | AAH66958 |
| C 988 | 15 | 0.9 | 35 | 23 | AAH51623 |
| C 989 | 14.8 | 0.9 | 18 | 17 | AAAZ23495 |
| C 990 | 14.8 | 0.9 | 18 | 19 | AAO00348 |
| C 991 | 14.8 | 0.9 | 18 | 21 | AAZ24539 |
| C 992 | 14.8 | 0.9 | 18 | 22 | AAE73266 |
| C 993 | 14.8 | 0.9 | 19 | 21 | AAAB2703 |
| C 994 | 14.8 | 0.9 | 19 | 22 | AAH57865 |
| C 995 | 14.8 | 0.9 | 19 | 24 | AAAD4881 |
| C 996 | 14.8 | 0.9 | 20 | 13 | AAO29653 |
| C 997 | 14.8 | 0.9 | 20 | 13 | AAO14977 |
| C 998 | 14.8 | 0.9 | 20 | 14 | AAO38183 |
| C 999 | 14.8 | 0.9 | 20 | 14 | AAO88217 |
| C1000 | 14.8 | 0.9 | 20 | 15 | AAO30787 |

ALIGNMENTS

Thermosensitive polypeptide
RANP (neuropilin)
Human GAP complex
Human STAG3 stromal
C neofornans strata
Human SEC2 DNA amp
Endogenous human
Bovine viral diatri
Human insulin-like
NMAR-1 primer 2
pAmino terminal
Single stranded c
Antibody H chain
Urokinase plasmin
Phaseolin promote
PCR primer for PS
Group B Streptoco
Neisseria species
Shope Fibroma Vir
VH ligand-binding
RhoG 755, hybrid
Human G-protein c
Pollowirus DNA pr
Oestrogen recepto
Missequencing det
CFTR gene analysi
Rat beta1-adrenoce
Oligo PCR 294 to
Human A2 PCR in
Human HLA-A2 PCR
Streptococcus sp. 6
Neurotactoidal gen
Human cytokine reg
Oligonucleotide 2
cdK2 ribozyme bin
Cell-cycle depend
Sense PCR primer,
PCR primer #80 for
NANP Hepatitis vir
PCR primer #80, fo
PCR primer #80, fo
Hepatitis C virus

Priority for HDAC-
Andreas + March 2000
no ~~idea~~
(3/24)

| | |
|------------------------------|--------------------------------|
| RESULT | 1 |
| AA55804/c | |
| AA55804 | |
| AA55804 standard; DNA; 26 BP | |
| NC | AA55804; |
| XX | |
| DT | 01-SEP-2000 (first entry) |
| XX | |
| DE | Human histone deacetylase HD1 |
| XX | |
| KW | Human; DNA methyltransferase; |
| KW | modulation; inhibition; gene e |
| KW | histone deacetylase; HDAC; thy |
| KW | methylation; gene therapy; tum |
| KW | antiinflammatory; inflammation |
| XX | |
| OS | Homo sapiens. |
| PN | WO200023112-A1. |
| XX | |
| PD | 27-APR-2000. |
| XX | |
| PE | 19-OCT-1999; 99WO-US24278. |
| XX | |
| PR | 19-OCT-1998; 98US-0104804. |

| | |
|----|---|
| PA | (METH-) METHYLGENE INC. |
| PI | Besterman JM, MacLeod AR, Siders WM; |
| XX | WPI: 2000-339532/29. |
| XX | |
| PT | Inhibiting gene expression e.g. DNA methyltransferase, by treating |
| PT | cells with a synergistic amount of antisense oligonucleotide and |
| PT | protein effectors e.g. 5-aza-cytidine of gene products, useful for gene |
| PT | therapy of e.g. tumors |
| XX | |
| PS | Example 9; Page 29; 99pp; English. |
| XX | |
| CC | The present invention describes a method for inhibiting the expression |
| CC | of a gene in a cell comprising contacting the cell with an effective |
| CC | synergistic amount of an antisense oligonucleotide which inhibits |
| CC | expression of the gene, and an effective synergistic amount of a protein |
| CC | effector of a product of the gene. Also described are: (1) a method for |
| CC | treating a disease responsive to inhibition of a gene in a mammal; (2) a |
| CC | method for inhibiting tumour growth in mammal; (3) an inhibitor of a |
| CC | gene comprising an antisense oligonucleotide which inhibits expression of |
| CC | the gene in operable association with a protein effector of a gene |
| CC | product; and (4) a pharmaceutical composition comprising the inhibitor of |
| CC | (3). The methods and compositions are useful as analytical tools for |
| CC | transgenic studies and as therapeutic tools, e.g. as gene therapy tools |
| CC | for human diseases including benign and malignant tumours, inflammation |
| CC | or asthma. The methods, inhibitors and compositions of the invention |
| CC | that inhibit expression or activity of a gene or gene product may be |
| CC | used to treat patients having, or predisposed to developing, a disease |
| CC | responsive to inhibition of the gene. These may also be used to activate |
| CC | silent genes to provide missing gene functions and improve a given |
| CC | condition. Furthermore, the methods and compositions are useful as |
| CC | probes of the physiological function of a gene product in an experimental |
| CC | cell culture or animal system; and to evaluate the effect of inhibiting |
| CC | gene activity or expression. AA55758 to AA55842 represent |
| CC | oligonucleotide sequences which are used in the exemplification of the |
| CC | present invention. |
| XX | |
| XX | |
| XX | Sequence 26 BP; 8 A; 5 C; 6 G; 7 T; 0 other; |

```

Query Match      1.6%; Score 26; DB 21; Length 26;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 26; Conservaive 0; Mismatches 0; Indels 0; Gaps 0;

QY      211 gaatccgcatgactcataattgctg 236
      |||||
Db      26 GAATCCGCATGACTCATATTGCTG 1

RESULT 2
AAH43114/c
ID      AAH43114 standard; DNA; 26 bp.
XX
XX      AAH43114;
XX
XX      19-SEP-2001 (first entry)
XX
XX
DE      Antisense oligo, target HDAC-1 211-236.
XX
XX      Antisense: histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
KW      cell proliferation; cancer; restenosis; psoriasis; protozoal infection;
XX      fungal infections; ss.
XX
XX      Synthetic.
XX
XX      MO260138322-A1.
XX
XX      31-MAY-2001.
XX
XX      22-NOV-2000; Z000MO-IB01881.
XX
XX      23-NOV-1999; 99US-0167035.
XX

```

inhibitors may be antisense strands or they may be compounds identified by contacting the enzyme with the compound and measuring the resulting enzyme activity. These inhibitors are useful for treating cancers and for identifying which histone deacetylase is involved in a neoplasia.

Sequence 26 BP; 8 A; 5 C; 6 G; 7 T; 0 other;

Query Match 1.6%; Score 26; DB 22; Length 26;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

OY 211 gaatcgcagctgactcataattgctg 236
|||||
Db 26 GAATCGCATGACTCATATTGCTG 1

RESULT 4
AAC89543/C
ID AAC89543 standard; DNA; 26 BP.
XX AAC89543:
XX
XX 08-MAR-2001 (first entry)
XX
XX Human HDAC-1/HDAC-2 antisense sequence SEQ ID NO. 13
XX
XX
XX Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
XX HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
XX gene therapy; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX

30-NOV-2000
03-MAR-2000; 2000OWO-1BP1252.
03-MAY-1999; 9905-0132287.
(METH-) METHYLENE INC.
MacLeod AR, Li Z, Besterman JM;
WPI; 2001-0164607/02.
~~Antisense of deacetylase that inhibits expression of a histone
deacetylase, useful for treating and/or alleviating the symptoms of
neoplasia, or for inhibiting neoplastic cell growth in an animal -~~
Example 1: Page 23; 125pp; English.
The present invention provides inhibitors of histone deacetylase enzymes
such as HDAC-1, HDAC-2, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
inhibitors may be antisense strands or they may be compounds identified
by contacting the enzyme with the compound and measuring the resulting
enzyme activity. These inhibitors are useful for treating cancers and for
identifying which histone deacetylase is involved in a neoplasia.
Sequence 26 BP; 8 A; 5 C; 6 G; 5 T; 2 U; 0 other;
Query Match 1.6%; Score 26; DB 22; Length 26;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 211 gaatccgatgactcataattgctg 236
|||||
Db 26 GAATCCGATGACTCATATAATTGCTG 1

CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
 CC inhibitors may be antisense strands or they may be compounds identified
 CC by contacting the enzyme with the compound and measuring the resulting
 CC enzyme activity. These inhibitors are useful for treating cancers and for
 CC identifying which histone deacetylase is involved in a neoplasia.
 XX
 SQ Sequence 26 BP; 7 A; 5 C; 7 G; 5 T; 2 U; 0 other;

Query Match 1.5%; Score 24.4; DB 22; Length 26;
 Best Local Similarity 96.2%; Pred. No. 1.3e+03;
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 211 gaacgcgactacataattgctg 236
 |||||||||||
 DB 26 GAATCCGATGACCATTAATTGCTG 1

RESULT 8
 AAC89542/c
 AAC89542 standard; DNA: 26 BP.

AC AAC89542;
 XX 08-MAR-2001 (first entry)

DE Human_HDAC-1/HDAC-2 antisense sequence SEQ ID NO: 12.

KW Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
 KM HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
 KM gene therapy; PCR primer; ss.

XX Homo sapiens

XX NO200071703-72

XX 30-NOV-2000.

XX 03-MAY-2000; 2000WO-1B01252.

XX 03-MAY-1999; 99US-01d2287.

XX (METH-) METHYLENE INC.

XX Macleod AR, Li Z, Besterman JM;

XX WPI: 2001-016407/02.

XX Antisense oligonucleotide that inhibits expression of a histone
 PT deacetylase, useful for treating and/or alleviating the symptoms of
 PT neoplasia, or for inhibiting neoplastic cell growth in an animal -

XX Example 1; Page 23; 125pp; English.

XX The present invention provides inhibitors of histone deacetylase enzymes
 CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
 CC inhibitors may be antisense strands or they may be compounds identified
 CC by contacting the enzyme with the compound and measuring the resulting
 CC enzyme activity. These inhibitors are useful for treating cancers and for
 CC identifying which histone deacetylase is involved in a neoplasia.

XX Sequence 26 BP; 7 A; 5 C; 7 G; 5 T; 2 U; 0 other;

Query Match 1.5%; Score 24.4; DB 22; Length 26;
 Best Local Similarity 96.2%; Pred. No. 1.3e+03;
 Matches 25; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 211 gaacgcgactacataattgctg 236
 |||||||||||
 DB 26 GAATCCGATGACCATTAATTGCTG 1

RESULT 9
 ID AAA55837/c
 AAA55837 standard; DNA: 26 BP.

XX AAA55837;
 XX 01-SEP-2000 (first entry)

DE Histone deacetylase HD1 and HD2 antisense oligonucleotide SEQ ID NO:82.

XX Human: DNA methyltransferase; DNA Methylase; antisense oligonucleotide;
 KW modulation; inhibition; gene expression; combination therapy; p16;
 KW histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
 KW methylation; gene therapy; tumour; cytostatic; antiasthmatic;
 KW antiinflammatory; inflammation; asthma; ss.

XX Homo sapiens.

XX NO200023112-21

XX 27-APR-2000.

XX 19-OCT-1999; 99WO-US24278.

XX 19-OCT-1998; 98US-0104804.

XX (METH-) METHYLENE INC.

XX Besterman JM, Macleod AR, Siders WM;

XX WPI: 2000-339532/29.

XX Inhibiting gene expression e.g. DNA methyltransferase, by treating
 PT cells with a synergistic amount of antisense oligonucleotide and
 PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
 PT therapy of e.g. tumors -

XX Example 9; Page 58; 69pp; English.

XX The present invention describes a method for inhibiting the expression
 CC of a gene in a cell comprising contacting the cell with an effective
 CC synergistic amount of an antisense oligonucleotide which inhibits
 CC expression of the gene, and an effective synergistic amount of a protein
 CC effector of a product of the gene. Also described are: (1) a method for
 CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
 CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a
 CC gene comprising an antisense oligonucleotide which inhibits expression of
 CC the gene in operable association with a protein effector of a gene
 CC product; and (4) a pharmaceutical composition comprising the inhibitor of
 CC (3). The methods and compositions are useful as analytical tools for
 CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
 CC for human diseases including benign and malignant tumours, inflammation
 CC or asthma. The methods, inhibitors and compositions of the invention
 CC that inhibit expression or activity of a gene or gene product may be
 CC used to treat patients having, or predisposed to developing, a disease
 CC responsive to inhibition of the gene. These may also be used to activate
 CC silenced genes to provide missing gene functions and improve a given
 CC condition. Furthermore, the methods and compositions are useful as
 CC probes of the physiological function of a gene product in an experimental
 CC cell culture or animal system; and to evaluate the effect of inhibiting
 CC gene activity or expression. AAA55758 to AAA55842 represent
 CC oligonucleotide sequences which are used in the exemplification of the
 CC present invention.

XX Sequence 26 BP; 7 A; 4 C; 8 G; 5 T; 2 U; 0 other;

Query Match 1.5%; Score 23.4; DB 21; Length 26;
 Best Local Similarity 96.0%; Pred. No. 2.7e+03;
 Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 212 aatccgactgactacataattgctg 236
 |||||||||||

Db 25 AATCCGATGACCAATATTGCTG 1

RESULT 10
ID AAA55838/C
AAA55838 standard; DNA; 26 BP.

AC AAA55838
XX 01-SEP-2000 (first entry)

DE Histone deacetylase HD1 and HD2 antisense oligonucleotide SEQ ID NO:83.

XX Human; DNA methyltransferase; DNA Methylase; antisense oligonucleotide;
KW modulation; inhibition; gene expression; combination therapy; p16;
KW histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
KW methylation; gene therapy; tumour; cytostatic; antiasthmatic;
KW antiinflammatory; inflammation; asthma; ss.

OS Homo sapiens.

XX WO200023112-AL

XX 27-APR-2000.

XX 19-OCT-1999. 99WO-US24278.

XX 19-OCT-1998. 98US-0104804.

XX (METH-) METHYLGENE INC.

XX Besterman JM, Macleod AR, Siders WM;

XX WPI: 2000-339532/29.

XX Inhibiting gene expression e.g. DNA methyltransferase, by treating
PT cells with a synergistic amount of antisense oligonucleotide and
PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
PT therapy of e.g. tumors

PS Example 9; Page 58; 99pp; English.

XX The present invention describes a method for inhibiting the expression
CC of a gene in a cell comprising contacting the cell with an effective
CC synergistic amount of an antisense oligonucleotide which inhibits
CC expression of the gene, and an effective synergistic amount of a protein
CC effector of a product of the gene. Also described are: (1) a method for
CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a
CC gene comprising an antisense oligonucleotide which inhibits expression of
CC the gene in operable association with a protein effector of a gene
CC product; and (4) a pharmaceutical composition comprising the inhibitor of
CC (3). The methods and compositions are useful as analytical tools for
CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
CC for human diseases including benign and malignant tumours, inflammation
CC or asthma. The methods, inhibitors and compositions of the invention
CC that inhibit expression or activity of a gene or gene product may be
CC used to treat patients having, or predisposed to developing, a disease
CC responsive to inhibition of the gene. These may also be used to activate
CC silenced genes to provide missing gene functions and improve a given
CC condition. Furthermore, the methods and compositions are useful as
CC probes of the physiological function of a gene product in an experimental
CC cell culture or animal system; and to evaluate the effect of inhibiting
CC gene activity or expression. AAA5758 to AAA5842 represent
CC oligonucleotide sequences which are used in the exemplification of the
CC present invention.

XX Sequence 26 BP; 7 A; 4 C; 8 G; 5 T; 2 U; 0 other;

Query Match 1.5%; Score 23.4; DB 21; Length 26;
Best Local Similarity 96.0%; Pred. No. 2.7e+03;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 212 aatccgatgactcaattgctg 236

Db 25 AATCCGATGACTCAATGCTG 1

RESULT 11
ID AAA55802/C
AAA55802 standard; DNA; 23 BP.

AC AAA55802

XX 01-SEP-2000 (first entry)

DE Human histone deacetylase HD1 antisense oligonucleotide SEQ ID NO:45.

XX Human; DNA methyltransferase; DNA Methylase; antisense oligonucleotide;
KW modulation; inhibition; gene expression; combination therapy; p16;
KW histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
KW methylation; gene therapy; tumour; cytostatic; antiasthmatic;
KW antiinflammatory; inflammation; asthma; ss

OS Homo sapiens.

XX WO200023112-AL

XX 27-APR-2000.

XX 19-OCT-1999. 99WO-US24278.

XX 19-OCT-1998. 98US-0104804.

XX (METH-) METHYLGENE INC.

XX Besterman JM, Macleod AR, Siders WM;

XX WPI: 2000-339532/29.

XX Inhibiting gene expression e.g. DNA methyltransferase, by treating
PT cells with a synergistic amount of antisense oligonucleotide and
PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
PT therapy of e.g. tumors

PS Disclosure; Page 29; 99pp; English.

XX The present invention describes a method for inhibiting the expression
CC of a gene in a cell comprising contacting the cell with an effective
CC synergistic amount of an antisense oligonucleotide which inhibits
CC expression of the gene, and an effective synergistic amount of a protein
CC effector of a product of the gene. Also described are: (1) a method for
CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a
CC gene comprising an antisense oligonucleotide which inhibits expression of
CC the gene in operable association with a protein effector of a gene
CC product; and (4) a pharmaceutical composition comprising the inhibitor of
CC (3). The methods and compositions are useful as analytical tools for
CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
CC for human diseases including benign and malignant tumours, inflammation
CC or asthma. The methods, inhibitors and compositions of the invention
CC that inhibit expression or activity of a gene or gene product may be
CC used to treat patients having, or predisposed to developing, a disease
CC responsive to inhibition of the gene. These may also be used to activate
CC silenced genes to provide missing gene functions and improve a given
CC condition. Furthermore, the methods and compositions are useful as
CC probes of the physiological function of a gene product in an experimental
CC cell culture or animal system; and to evaluate the effect of inhibiting
CC gene activity or expression. AAA5758 to AAA5842 represent
CC oligonucleotide sequences which are used in the exemplification of the
CC present invention.

XX Sequence 23 BP; 6 A; 5 C; 5 G; 7 T; 0 other;

Query Match 1.4%; Score 23; DB 21; Length 23;
 Best Local Similarity 100.0%; Pred. No. 3.3e+03;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 138 aaatctgttactactacagcg 160
 |||
 DB 23 AAAGCTGTCTACTACTACGACG 1

RESULT 12

AAH43112/C
 ID AAH43112 standard; DNA; 23 BP.

AC AAH43112;

DT 19-SEP-2001 (first entry)

DE Antisense oligo, target HDAC-1 138-160.

XX Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;
 XX cell proliferation; cancer; restenosis; psoriasis; protozoal infection;
 KW fungal infections; ss.

OS Synthetic.

PN WO20013832-A1.

PD 31-MAY-2001.

PF 22-NOV-2000; 2000WO-IB01881.

PR 23-NOV-1999; 99US-0167035.

PS (METH-) METHYLENE INC.

PI DeJorne D, Ruel R, Lavoie R, Thibault C, Abou-Khalil E;

DR WPI; 2001-432601/46.

XX New inhibitors of histone deacetylase e.g.
 PT N-hydroxy-5-(4-(benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for
 PT treating cancer, restenosis or fungal infections -

PS Disclosure; Page 40; 147pp; English.

XX The sequences given in AAH43102-14 are oligonucleotides which are
 CC antisense to the histone deacetylase gene, HDAC-1. These
 CC oligonucleotides may be used in combination with an inhibitor of
 CC histone deacetylase enzyme function, to give an improved inhibitory
 CC effect, thereby reducing the amount of inhibitor required to obtain a
 CC given inhibitory effect. Compounds containing these oligonucleotides
 CC may be used to treat cell proliferation conditions such as cancer,
 CC restenosis or psoriasis. They can also be used to treat protozoal
 CC and fungal infections.

XX Sequence 23 BP; 6 A; 5 C; 5 G; 7 T; 0 other;

Query Match 1.4%; Score 23; DB 22; Length 23;
 Best Local Similarity 100.0%; Pred. No. 3.3e+03;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 138 aaatctgttactactacagcg 160
 |||
 DB 23 AAAGCTGTCTACTACTACGACG 1

RESULT 13
 ID AAH55810/C
 AC AAH55810; standard; DNA; 26 BP.

XX

DT 01-SEP-2000 (first entry)

XX Human histone deacetylase HD2 antisense oligonucleotide SEQ ID NO:55.

XX Human; DNA methyltransferase; DNA Metase; antisense oligonucleotide;
 KW modulation; inhibition; gene expression; combination therapy; p16;
 KW histone deacetylase; HDAC; thymidylate synthase; tumor suppressor;
 KW methylation; gene therapy; tumor; cytostatic; antiasthmatic;
 KW antiinflammatory; inflammation; asthma; ss.

XX Homo sapiens.

XX WO200023112-A1.

XX 27-APR-2000.

PF 19-OCT-1999; 99WO-US24278.

PR 19-OCT-1998; 98US-0104804.

PS (METH-) METHYLENE INC.

PI Besterman JM, MacLeod AR, Siders WM;

DR WPI; 2000-339532/29.

XX Inhibiting gene expression e.g. DNA methyltransferase, by treating
 PT cells with a synergistic amount of antisense oligonucleotide and
 PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
 PT therapy of e.g. tumors -

XX Example 9; Page 29; 99pp; English.

XX The present invention describes a method for inhibiting the expression
 CC of a gene in a cell comprising contacting the cell with an effective
 CC synergistic amount of an antisense oligonucleotide which inhibits
 CC expression of the gene, and an effective synergistic amount of a protein
 CC effector of a product of the gene. Also described are: (1) a method for
 CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
 CC method for inhibiting tumor growth in mammal; (3) an inhibitor of a
 CC gene comprising an antisense oligonucleotide which inhibits expression of
 CC the gene in operable association with a protein effector of a gene
 CC product; and (4) a pharmaceutical composition comprising the inhibitor of
 CC (3). The methods and compositions are useful as analytical tools for
 CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
 CC for human diseases, including benign and malignant tumors, inflammation
 CC or asthma. The methods, inhibitors and compositions of the invention
 CC that inhibit expression or activity of a gene or gene product may be
 CC used to treat patients having, or predisposed to developing, a disease
 CC responsive to inhibition of the gene. These may also be used to activate
 CC silenced genes to provide missing gene functions and improve a given
 CC condition. Furthermore, the methods and compositions are useful as
 CC probes of the physiological function of a gene product in an experimental
 CC cell culture or animal system; and to evaluate the effect of inhibiting
 CC gene activity or expression. AAH55758 to AAH5842 represent
 CC oligonucleotide sequences which are used in the exemplification of the
 CC present invention.

XX Sequence 26 BP; 6 A; 5 C; 8 G; 7 T; 0 other;

Query Match 1.4%; Score 22.8; DB 21; Length 26;
 Best Local Similarity 92.3%; Pred. No. 4.1e+03;
 Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 211 gaatcgcatacatatctgctg 236
 |||
 DB 26 GAATCCGATGACCATTAATTGCTG 1

RESULT 14
 ID AAH43120/C
 AC AAH43120; standard; DNA; 26 BP.

| | |
|-----------------------------------|---|
| XX | AAR43120: |
| XX | (first entry) |
| XX | 19-SEP-2001 |
| DE | Antisense oligo, target HDAC-2 211-236. |
| XX | |
| XX | Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor; |
| RW | cell proliferation; cancer; restenosis; psoriasis; protozoal infection; |
| KW | fungal infections; ss. |
| XX | |
| OS | Synthetic. |
| XX | |
| PN | WO200138322-A1. |
| PD | 31-MAY-2001 |
| XX | |
| PX | 32-NOV-2000; 2000WO-IB01881 |
| PR | 23-NOV-1999; 99US-0167035 |
| XX | |
| PA | (METH-) METHYLGENE INC. |
| XX | |
| EI | Delorme D, Ruel R, Lavoie R, Thibault C, Abou-Khalil E; |
| DR | WPI; 2001-432601/46. |
| XX | |
| PT | New inhibitors of histone deacetylase e.g. |
| PT | N-hydroxy-5-(4-(benzenesulfonamido)-phenyl)-4-yn-2-pentanamide for |
| PT | treating cancer, restenosis or fungal infections - |
| XX | |
| PS | Disclosure: Page 40; 147pp; English. |
| XX | |
| CC | The sequences given in AAR43115-21 are oligonucleotides which are |
| CC | antisense to the histone deacetylase gene, HDAC-2. These |
| CC | oligonucleotides may be used in combination with an inhibitor of |
| CC | histone deacetylase enzyme function, to give an improved inhibitor |
| CC | effect, thereby reducing the amount of inhibitor required to obtain a |
| CC | given inhibitory effect. Compounds containing these oligonucleotides |
| CC | may be used to treat cell proliferation conditions such as cancer, |
| CC | restenosis or psoriasis. They can also be used to treat protozoal |
| CC | and fungal infections. |
| XX | |
| SQ | Sequence 26 BP; 6 A; 5 C; 8 G; 7 T; 0 other; |
| XX | |
| Query Match | 1.4%; Score 22.8; DB 22; Length 26; |
| Best Local Similarity | 92.3%; Pred. No. 4.1e+03; |
| Matches 24; Conservative | 0; Mismatches 2; Indels 0; Gaps 0; |
| XX | |
| 231 | gaatccgatgactcataattgcgcg 236 |
| XXXXXXX | |
| Db | 26 GAATCCGATGCACCATAACTTGCGT 1 |
| RESULT 15 | |
| AAC89535/C | |
| ID AAC89535 standard; DNA; 26 BP. | |
| XX | |
| AC | AAC89535 |
| XX | |
| DT | 08-MAR-2001 (first entry) |
| XX | |
| DE | Human HDAC-1/HDAC-2 PCR primer SEQ ID NO: 5. |
| XX | |
| RW | Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-C; |
| RW | HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense; |
| XX | gene therapy; PCR primer; ss. |
| OS | Homo sapiens. |
| XX | |
| XX | WO200071703-A2. |

PD 30-NOV-2000.
XX
PF 03-MAY-2000; 2000OMO-IB01252.
XX
PR 03-MAY-1999; 9905-0132287.
XX
PA (METH-) METHYLENE INC.
XX
MacLeod AR, Li Z, Besterman JM;
PI
WPI; 2001-016407/02.
DR
Antisense oligonucleotide that inhibits expression of a histone
PT deacetylase, useful for treating and/or alleviating the symptoms of
PT neoplasia, or for inhibiting neoplastic cell growth in an animal -
XX
XX
PS Example 2; Page 12; 125pp; English.
XX
XX The present invention provides inhibitors of histone deacetylase enzymes
CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
CC inhibitors may be antisense strands or they may be compounds identified
CC by contacting the enzyme with the compound and measuring the resulting
CC enzyme activity. These inhibitors are useful for treating cancers and for
CC identifying which histone deacetylase is involved in a neoplasia.
CC
SQ Sequence 26 BP; 6 A; 5 C; 8 G; 7 T; 0 other;
OY
Query Match 1.4%; Score 22.8; DB 22; Length 26;
Best Local Similarity 92.3%; Pred. No. 4,1e+03;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
211 gaatccgcatgactcataattgctg 236
|||||
26 GAATCCGCAATGACCAATACCTGCTG 1

Search completed: July 19, 2002, 01:24:02
Job time: 8463 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 18, 2002, 22:13:24 ; Search time 74.59 Seconds
(Without alignments)
5305.209 Million cell updates/sec

Title: US-09-817-538-2
Perfect score: 1611
Sequence: 1 atgtctggggtctctgcgccg.....tccctcagcttcttccccc 1611

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues
Total number of hits satisfying chosen parameters: 417362

Minimum DB seq length: 13
Maximum DB seq length: 35

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_NA: *
1: /cgn2_6/ptodata/2/1na/5A_COMB.seq: *
2: /cgn2_6/ptodata/2/1na/5B_COMB.seq: *
3: /cgn2_6/ptodata/2/1na/6A_COMB.seq: *
4: /cgn2_6/ptodata/2/1na/6B_COMB.seq: *
5: /cgn2_6/ptodata/2/1na/PTUS_COMB.seq: *
6: /cgn2_6/ptodata/2/1na/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--|
| 1 | 18.2 | 1.1 | 24 | 1 | US-08-245-758-13 Sequence 13, Appl |
| 2 | 18.2 | 1.1 | 24 | 5 | PCT-US95-05134-13 Sequence 13, Appl |
| 3 | 18.2 | 1.1 | 26 | 3 | US-08-856-331-16 Sequence 16, Appl |
| 4 | 18.2 | 1.1 | 27 | 4 | US-08-584-040-756 Sequence 756, App |
| 5 | 18 | 1.1 | 24 | 1 | US-08-066-325-49 Sequence 49, Appl |
| 6 | 18 | 1.1 | 34 | 2 | US-08-646-367-10 Sequence 10, Appl |
| 7 | 17.8 | 1.1 | 29 | 2 | US-08-837-201C-139 Sequence 139, App |
| 8 | 17.8 | 1.1 | 29 | 4 | US-09-364-416-139 Sequence 139, Appl |
| 9 | 17.8 | 1.1 | 32 | 3 | US-08-132-649-11 Sequence 11, Appl |
| 10 | 17.8 | 1.1 | 32 | 3 | US-08-767-579-11 Sequence 11, Appl |
| 11 | 17.6 | 1.1 | 34 | 2 | US-08-888-366-33 Sequence 33, Appl |
| 12 | 17.6 | 1.1 | 34 | 3 | US-08-767-128-42 Sequence 42, Appl |
| 13 | 17.4 | 1.1 | 29 | 4 | US-08-256-799-13 Sequence 13, Appl |
| 14 | 17.4 | 1.1 | 29 | 4 | US-08-462-437-13 Sequence 13, Appl |
| 15 | 17.4 | 1.1 | 30 | 1 | US-07-977-284A-210 Sequence 210, App |
| 16 | 17.4 | 1.1 | 30 | 2 | US-08-256-426B-210 Sequence 210, Appl |
| 17 | 17.4 | 1.1 | 35 | 2 | US-08-173-489C-20 Sequence 20, Appl |
| 18 | 17.4 | 1.1 | 35 | 4 | US-08-256-799-12 Sequence 12, Appl |
| 19 | 17.4 | 1.1 | 35 | 4 | US-08-462-437-12 Sequence 12, Appl |
| 20 | 17.2 | 1.1 | 22 | 1 | US-07-814-964-1 Sequence 1, Appl |
| 21 | 17.2 | 1.1 | 22 | 1 | US-08-258-442-1 Sequence 1, Appl |
| 22 | 17.2 | 1.1 | 22 | 5 | PCT-US92-1107-1 Sequence 1, Appl |
| 23 | 17.2 | 1.1 | 23 | 1 | US-08-254-359A-38 Sequence 38, Appl |
| 24 | 17.2 | 1.1 | 23 | 1 | US-08-471-066B-38 Sequence 38, Appl |
| 25 | 17.2 | 1.1 | 23 | 2 | US-08-484-956-38 Sequence 38, Appl |
| 26 | 17.2 | 1.1 | 23 | 2 | US-08-757-653-38 Sequence 38, Appl |
| 27 | 17.2 | 1.1 | 23 | 2 | US-08-599-491-38 Sequence 38, Appl |

| | | | | | |
|-------|------|-----|----|---|---|
| C 28 | 17.2 | 1.1 | 23 | 2 | US-08-756-386-38 Sequence 38, Appl |
| C 29 | 17.2 | 1.1 | 23 | 3 | US-08-682-853A-38 Sequence 38, Appl |
| C 30 | 17.2 | 1.1 | 23 | 3 | US-08-759-038-38 Sequence 38, Appl |
| C 31 | 17.2 | 1.1 | 23 | 3 | US-08-758-314-38 Sequence 38, Appl |
| C 32 | 17.2 | 1.1 | 23 | 4 | US-08-350-309-38 Sequence 38, Appl |
| C 33 | 17.2 | 1.1 | 24 | 1 | US-08-254-359A-36 Sequence 36, Appl |
| C 34 | 17.2 | 1.1 | 24 | 2 | US-08-471-066B-36 Sequence 36, Appl |
| C 35 | 17.2 | 1.1 | 24 | 2 | US-08-484-956-36 Sequence 36, Appl |
| C 36 | 17.2 | 1.1 | 24 | 2 | US-08-757-653-36 Sequence 36, Appl |
| C 37 | 17.2 | 1.1 | 24 | 2 | US-08-599-491-36 Sequence 36, Appl |
| C 38 | 17.2 | 1.1 | 24 | 2 | US-08-756-386-36 Sequence 36, Appl |
| C 39 | 17.2 | 1.1 | 24 | 3 | US-08-682-853A-36 Sequence 36, Appl |
| C 40 | 17.2 | 1.1 | 24 | 3 | US-08-759-038-36 Sequence 36, Appl |
| C 41 | 17.2 | 1.1 | 24 | 3 | US-08-758-314-36 Sequence 36, Appl |
| C 42 | 17.2 | 1.1 | 24 | 4 | US-09-350-309-36 Sequence 36, Appl |
| C 43 | 17.2 | 1.1 | 30 | 1 | US-08-150-331-1 Sequence 1, Appl |
| C 44 | 17.2 | 1.1 | 33 | 3 | US-08-963-472-14 Sequence 14, Appl |
| C 45 | 17.2 | 1.1 | 33 | 4 | US-09-302-238-2 Sequence 2, Appl |
| C 46 | 17 | 1.1 | 34 | 2 | US-08-956-047-14 Sequence 14, Appl |
| C 47 | 17 | 1.1 | 34 | 4 | US-09-077-205-14 Sequence 14, Appl |
| C 48 | 16.8 | 1.0 | 27 | 4 | US-08-584-040-1346 Sequence 1346, Ap |
| C 49 | 16.8 | 1.0 | 30 | 1 | US-08-479-487-67 Sequence 67, Appl |
| C 50 | 16.8 | 1.0 | 30 | 2 | US-08-450-905B-65 Sequence 65, Appl |
| C 51 | 16.8 | 1.0 | 30 | 3 | US-07-982-759F-52 Sequence 52, Appl |
| C 52 | 16.8 | 1.0 | 30 | 3 | US-07-982-759F-65 Sequence 65, Appl |
| C 53 | 16.8 | 1.0 | 33 | 1 | US-08-513-974B-133 Sequence 133, App |
| C 54 | 16.8 | 1.0 | 33 | 3 | US-08-578-649-21 Sequence 21, Appl |
| C 55 | 16.8 | 1.0 | 34 | 3 | US-09-040-025-15 Sequence 15, Appl |
| C 56 | 16.6 | 1.0 | 34 | 4 | US-09-040-025-15 Sequence 15, Appl |
| C 57 | 16.6 | 1.0 | 25 | 2 | US-08-450-905B-52 Sequence 52, Appl |
| C 58 | 16.6 | 1.0 | 25 | 3 | US-07-982-759F-52 Sequence 52, Appl |
| C 59 | 16.6 | 1.0 | 27 | 4 | US-08-679-645-1113 Sequence 1113, Ap |
| C 60 | 16.6 | 1.0 | 31 | 1 | US-08-390-850-272 Sequence 272, App |
| C 61 | 16.6 | 1.0 | 31 | 1 | US-08-390-850-272 Sequence 272, App |
| C 62 | 16.6 | 1.0 | 31 | 1 | US-08-435-634-272 Sequence 272, App |
| C 63 | 16.6 | 1.0 | 33 | 4 | US-09-127-670-2 Sequence 2, Appl |
| C 64 | 16.6 | 1.0 | 34 | 2 | US-08-465-971B-7 Sequence 7, Appl |
| C 65 | 16.6 | 1.0 | 34 | 3 | US-08-863-813A-31 Sequence 31, Appl |
| C 66 | 16.6 | 1.0 | 34 | 4 | US-08-676-318A-31 Sequence 31, Appl |
| C 67 | 16.6 | 1.0 | 35 | 1 | US-08-066-961-29 Sequence 29, Appl |
| C 68 | 16.6 | 1.0 | 35 | 3 | US-08-902-632-11 Sequence 11, Appl |
| C 69 | 16.4 | 1.0 | 20 | 1 | US-08-250-856A-27 Sequence 27, Appl |
| C 70 | 16.4 | 1.0 | 20 | 2 | US-08-468-037A-13 Sequence 13, Appl |
| C 71 | 16.4 | 1.0 | 20 | 2 | US-08-471-973A-13 Sequence 13, Appl |
| C 72 | 16.4 | 1.0 | 20 | 2 | US-08-756-806A-27 Sequence 27, Appl |
| C 73 | 16.4 | 1.0 | 20 | 2 | US-08-465-880-13 Sequence 13, Appl |
| C 74 | 16.4 | 1.0 | 20 | 3 | US-09-035-357-13 Sequence 13, Appl |
| C 75 | 16.4 | 1.0 | 20 | 3 | US-09-143-214-27 Sequence 27, Appl |
| C 76 | 16.4 | 1.0 | 20 | 3 | US-09-000-136-13 Sequence 13, Appl |
| C 77 | 16.4 | 1.0 | 20 | 5 | PCT-US95-07111A-27 Sequence 27, Appl |
| C 78 | 16.4 | 1.0 | 30 | 2 | US-08-779-596A-14 Sequence 14, Appl |
| C 79 | 16.4 | 1.0 | 30 | 3 | US-08-685-871-9 Sequence 9, Appl |
| C 80 | 16.4 | 1.0 | 31 | 1 | US-08-390-850-268 Sequence 268, App |
| C 81 | 16.4 | 1.0 | 31 | 1 | US-08-390-850-269 Sequence 269, App |
| C 82 | 16.4 | 1.0 | 31 | 1 | US-08-390-850-270 Sequence 270, App |
| C 83 | 16.4 | 1.0 | 31 | 1 | US-08-390-850-271 Sequence 271, App |
| C 84 | 16.4 | 1.0 | 31 | 1 | US-08-435-634-268 Sequence 268, App |
| C 85 | 16.4 | 1.0 | 31 | 1 | US-08-435-634-269 Sequence 269, App |
| C 86 | 16.4 | 1.0 | 31 | 1 | US-08-435-634-270 Sequence 270, App |
| C 87 | 16.4 | 1.0 | 31 | 1 | US-08-435-634-271 Sequence 271, App |
| C 88 | 16.4 | 1.0 | 32 | 2 | US-08-841-483-13 Sequence 13, Appl |
| C 89 | 16.4 | 1.0 | 32 | 4 | US-09-382-911-13 Sequence 13, Appl |
| C 90 | 16.4 | 1.0 | 33 | 1 | US-08-138-608-13 Sequence 13, Appl |
| C 91 | 16.4 | 1.0 | 33 | 1 | US-08-144-212-16 Sequence 16, Appl |
| C 92 | 16.4 | 1.0 | 35 | 1 | US-08-461-731-6 Sequence 6, Appl |
| C 93 | 16.4 | 1.0 | 35 | 1 | US-08-461-731-8 Sequence 8, Appl |
| C 94 | 16.4 | 1.0 | 35 | 2 | US-09-002-072B-6 Sequence 6, Appl |
| C 95 | 16.4 | 1.0 | 35 | 2 | US-09-002-072B-8 Sequence 8, Appl |
| C 96 | 16.4 | 1.0 | 35 | 3 | US-09-314-199-6 Sequence 6, Appl |
| C 97 | 16.4 | 1.0 | 35 | 3 | US-09-314-199-8 Sequence 8, Appl |
| C 98 | 16.4 | 1.0 | 35 | 4 | US-09-581-617-16 Sequence 16, Appl |
| C 99 | 16.2 | 1.0 | 27 | 4 | US-08-584-040-7050 Sequence 7050, Ap |
| C 100 | 16.2 | 1.0 | 28 | 5 | PCT-US94-10257A-36 Sequence 36, Appl |

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|-------|------|-----|----|---|--------------------|-------------------|-----|------|-----|----|---|--------------------|-------------------|
| c 101 | 16.2 | 1.0 | 30 | 1 | US-08-720-899-38 | Sequence 38, Appl | 174 | 15.8 | 1.0 | 33 | 1 | US-07-602-608-21 | Sequence 21, Appl |
| c 102 | 16.2 | 1.0 | 30 | 1 | US-08-459-610-38 | Sequence 38, Appl | 175 | 15.8 | 1.0 | 33 | 1 | US-08-261-578-21 | Sequence 21, Appl |
| c 103 | 16.2 | 1.0 | 30 | 2 | US-08-343-804-38 | Sequence 38, Appl | 176 | 15.8 | 1.0 | 33 | 3 | US-09-043-239-15 | Sequence 15, Appl |
| c 104 | 16.2 | 1.0 | 30 | 4 | US-08-696-932A-40 | Sequence 40, Appl | 177 | 15.8 | 1.0 | 33 | 3 | US-09-128-849-42 | Sequence 42, Appl |
| c 105 | 16.2 | 1.0 | 31 | 4 | US-08-271-882B-40 | Sequence 40, Appl | 178 | 15.8 | 1.0 | 34 | 3 | US-08-961-083-40 | Sequence 380, App |
| c 106 | 16.2 | 1.0 | 31 | 3 | US-08-726-278-40 | Sequence 40, Appl | 179 | 15.8 | 1.0 | 35 | 1 | US-08-463-224-41 | Sequence 41, Appl |
| c 107 | 16.2 | 1.0 | 33 | 2 | US-08-752-844-56 | Sequence 56, Appl | 180 | 15.8 | 1.0 | 35 | 2 | US-08-463-377-41 | Sequence 41, Appl |
| c 108 | 16.2 | 1.0 | 34 | 1 | US-08-417-330A-3 | Sequence 3, Appl | 181 | 15.6 | 1.0 | 22 | 1 | US-07-814-964-2 | Sequence 2, Appl |
| c 109 | 16.2 | 1.0 | 34 | 1 | US-08-449-311A-12 | Sequence 12, Appl | 182 | 15.6 | 1.0 | 22 | 1 | US-07-814-964-5 | Sequence 2, Appl |
| c 110 | 16.2 | 1.0 | 34 | 2 | US-08-988-128-15 | Sequence 15, Appl | 183 | 15.6 | 1.0 | 22 | 1 | US-08-258-442-2 | Sequence 2, Appl |
| c 111 | 16.2 | 1.0 | 34 | 5 | PCT-US95-17106A-12 | Sequence 12, Appl | 184 | 15.6 | 1.0 | 22 | 1 | US-08-258-442-5 | Sequence 2, Appl |
| c 112 | 16.2 | 1.0 | 35 | 4 | US-08-483-511-24 | Sequence 24, Appl | 185 | 15.6 | 1.0 | 22 | 5 | PCT-US92-11107-2 | Sequence 5, Appl |
| c 113 | 16.2 | 1.0 | 35 | 4 | US-09-198-603C-17 | Sequence 17, Appl | 186 | 15.6 | 1.0 | 22 | 5 | PCT-US92-11107-5 | Sequence 5, Appl |
| c 114 | 16.2 | 1.0 | 35 | 5 | PCT-US93-01009-24 | Sequence 24, Appl | 187 | 15.6 | 1.0 | 26 | 1 | US-08-479-852-4 | Sequence 4, Appl |
| c 115 | 16 | 1.0 | 24 | 2 | US-08-450-905B-64 | Sequence 64, Appl | 188 | 15.6 | 1.0 | 26 | 1 | US-08-479-852-56 | Sequence 56, Appl |
| c 116 | 16 | 1.0 | 24 | 2 | US-08-824-701A-2 | Sequence 2, Appl | 189 | 15.6 | 1.0 | 26 | 1 | US-08-479-852-70 | Sequence 70, Appl |
| c 117 | 16 | 1.0 | 24 | 3 | US-07-982-759F-64 | Sequence 64, Appl | 190 | 15.6 | 1.0 | 26 | 1 | US-08-479-852-84 | Sequence 84, Appl |
| c 118 | 16 | 1.0 | 24 | 5 | PCT-US91-02942-12 | Sequence 12, Appl | 191 | 15.6 | 1.0 | 26 | 2 | US-08-462-646-4 | Sequence 4, Appl |
| c 119 | 16 | 1.0 | 25 | 1 | US-08-056-200-9 | Sequence 9, Appl | 192 | 15.6 | 1.0 | 26 | 2 | US-08-462-646-56 | Sequence 56, Appl |
| c 120 | 16 | 1.0 | 25 | 2 | US-08-533F-17 | Sequence 17, Appl | 193 | 15.6 | 1.0 | 26 | 2 | US-08-462-646-70 | Sequence 70, Appl |
| c 121 | 16 | 1.0 | 25 | 2 | US-08-800-644-9 | Sequence 9, Appl | 194 | 15.6 | 1.0 | 26 | 2 | US-08-462-646-84 | Sequence 84, Appl |
| c 122 | 16 | 1.0 | 25 | 2 | US-08-923-109-8 | Sequence 8, Appl | 195 | 15.6 | 1.0 | 26 | 2 | US-08-859-998-474 | Sequence 474, App |
| c 123 | 16 | 1.0 | 25 | 4 | US-09-078-465-17 | Sequence 17, Appl | 196 | 15.6 | 1.0 | 26 | 4 | US-09-013-406-4 | Sequence 4, Appl |
| c 124 | 16 | 1.0 | 26 | 3 | US-08-765-340-3 | Sequence 3, Appl | 197 | 15.6 | 1.0 | 26 | 4 | US-09-013-406-56 | Sequence 56, Appl |
| c 125 | 16 | 1.0 | 27 | 4 | US-08-584-040-1329 | Sequence 1329, Ap | 198 | 15.6 | 1.0 | 26 | 4 | US-09-013-406-70 | Sequence 70, Appl |
| c 126 | 16 | 1.0 | 29 | 1 | US-08-295-676A-17 | Sequence 17, Appl | 199 | 15.6 | 1.0 | 26 | 4 | US-09-013-406-84 | Sequence 84, Appl |
| c 127 | 16 | 1.0 | 29 | 2 | US-08-948-591-17 | Sequence 17, Appl | 200 | 15.6 | 1.0 | 26 | 4 | US-09-025-928-474 | Sequence 474, App |
| c 128 | 16 | 1.0 | 30 | 1 | US-07-875-167-1 | Sequence 1, Appl | 201 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-755 | Sequence 755, App |
| c 129 | 16 | 1.0 | 30 | 1 | US-08-287-164-1 | Sequence 1, Appl | 202 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1117 | Sequence 1117, Ap |
| c 130 | 16 | 1.0 | 30 | 1 | US-08-123-702-33 | Sequence 33, Appl | 203 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1120 | Sequence 1120, Ap |
| c 131 | 16 | 1.0 | 31 | 3 | US-09-052-689-7 | Sequence 7, Appl | 204 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1121 | Sequence 1121, Ap |
| c 132 | 16 | 1.0 | 31 | 4 | US-08-679-645-366 | Sequence 366, App | 205 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1122 | Sequence 1122, Ap |
| c 133 | 16 | 1.0 | 31 | 4 | US-08-679-645-410 | Sequence 410, App | 206 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1123 | Sequence 1123, Ap |
| c 134 | 16 | 1.0 | 32 | 3 | US-08-685-871-13 | Sequence 13, Appl | 207 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-1193 | Sequence 1193, Ap |
| c 135 | 16 | 1.0 | 32 | 4 | US-08-647-924-41 | Sequence 41, Appl | 208 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-3680 | Sequence 3680, Ap |
| c 136 | 16 | 1.0 | 32 | 4 | US-09-043-149-10 | Sequence 10, Appl | 209 | 15.6 | 1.0 | 27 | 4 | US-08-584-040-5084 | Sequence 5084, Ap |
| c 137 | 16 | 1.0 | 33 | 4 | US-07-602-608-22 | Sequence 22, Appl | 210 | 15.6 | 1.0 | 27 | 4 | US-08-679-645-1091 | Sequence 1091, Ap |
| c 138 | 16 | 1.0 | 33 | 1 | US-08-067-684-11 | Sequence 11, Appl | 211 | 15.6 | 1.0 | 28 | 4 | US-09-309-382-18 | Sequence 18, Appl |
| c 139 | 16 | 1.0 | 33 | 1 | US-08-261-578-22 | Sequence 22, Appl | 212 | 15.6 | 1.0 | 28 | 4 | US-09-309-382-17 | Sequence 17, Appl |
| c 140 | 16 | 1.0 | 33 | 2 | US-08-008-898-11 | Sequence 11, Appl | 213 | 15.6 | 1.0 | 29 | 1 | US-08-479-817-2 | Sequence 2, Appl |
| c 141 | 16 | 1.0 | 33 | 2 | US-08-459-818-11 | Sequence 11, Appl | 214 | 15.6 | 1.0 | 29 | 1 | US-08-461-038-2 | Sequence 2, Appl |
| c 142 | 16 | 1.0 | 33 | 2 | US-08-889-666-11 | Sequence 11, Appl | 215 | 15.6 | 1.0 | 29 | 1 | US-08-345-505A-7 | Sequence 7, Appl |
| c 143 | 16 | 1.0 | 33 | 2 | US-08-465-078-11 | Sequence 11, Appl | 216 | 15.6 | 1.0 | 29 | 4 | US-08-461-645-2 | Sequence 2, Appl |
| c 144 | 16 | 1.0 | 33 | 2 | US-08-725-776-11 | Sequence 11, Appl | 217 | 15.6 | 1.0 | 29 | 4 | US-08-221-543-2 | Sequence 2, Appl |
| c 145 | 16 | 1.0 | 33 | 2 | US-08-488-062-11 | Sequence 11, Appl | 218 | 15.6 | 1.0 | 30 | 1 | US-07-718-274A-39 | Sequence 39, Appl |
| c 146 | 16 | 1.0 | 33 | 3 | US-08-228-208A-11 | Sequence 11, Appl | 219 | 15.6 | 1.0 | 30 | 1 | US-08-149-106-39 | Sequence 39, Appl |
| c 147 | 16 | 1.0 | 33 | 3 | US-09-074-357-10 | Sequence 10, Appl | 220 | 15.6 | 1.0 | 30 | 1 | US-08-298-021-39 | Sequence 39, Appl |
| c 148 | 16 | 1.0 | 34 | 2 | US-08-849-117-8 | Sequence 8, Appl | 221 | 15.6 | 1.0 | 30 | 2 | US-08-053-451B-123 | Sequence 123, App |
| c 149 | 16 | 1.0 | 34 | 4 | US-09-113-750A-47 | Sequence 47, Appl | 222 | 15.6 | 1.0 | 30 | 3 | US-07-808-452-21 | Sequence 21, Appl |
| c 150 | 16 | 1.0 | 34 | 5 | PCT-US95-15455A-8 | Sequence 8, Appl | 223 | 15.6 | 1.0 | 30 | 3 | US-08-848-810-42 | Sequence 42, Appl |
| c 151 | 16 | 1.0 | 35 | 1 | US-07-999-280A-10 | Sequence 10, Appl | 224 | 15.6 | 1.0 | 30 | 4 | US-09-450-072-2 | Sequence 2, Appl |
| c 152 | 16 | 1.0 | 35 | 1 | US-08-426-036-10 | Sequence 10, Appl | 225 | 15.6 | 1.0 | 30 | 5 | PCT-US92-10770-21 | Sequence 21, Appl |
| c 153 | 16 | 1.0 | 35 | 1 | US-08-426-279-10 | Sequence 10, Appl | 226 | 15.6 | 1.0 | 30 | 5 | PCT-US92-10792-18 | Sequence 18, Appl |
| c 154 | 16 | 1.0 | 35 | 1 | US-08-401-013-10 | Sequence 10, Appl | 227 | 15.6 | 1.0 | 31 | 1 | US-08-390-850-274 | Sequence 274, App |
| c 155 | 16 | 1.0 | 35 | 3 | US-08-426-570-10 | Sequence 10, Appl | 228 | 15.6 | 1.0 | 31 | 1 | US-08-435-634-274 | Sequence 274, App |
| c 156 | 16 | 1.0 | 35 | 3 | US-08-425-876-10 | Sequence 10, Appl | 229 | 15.6 | 1.0 | 31 | 2 | US-08-749-391-3 | Sequence 3, Appl |
| c 157 | 16 | 1.0 | 35 | 3 | US-08-426-243-10 | Sequence 10, Appl | 230 | 15.6 | 1.0 | 31 | 2 | US-08-846-021A-30 | Sequence 30, Appl |
| c 158 | 16 | 1.0 | 35 | 4 | US-08-401-632-10 | Sequence 10, Appl | 231 | 15.6 | 1.0 | 31 | 2 | US-09-390-200-3 | Sequence 3, Appl |
| c 159 | 16 | 1.0 | 35 | 4 | US-08-446-114A-13 | Sequence 13, Appl | 232 | 15.6 | 1.0 | 32 | 1 | US-08-483-743-22 | Sequence 22, Appl |
| c 160 | 15.8 | 1.0 | 20 | 1 | US-08-261-822A-55 | Sequence 55, Appl | 233 | 15.6 | 1.0 | 32 | 1 | US-08-244-378A-43 | Sequence 43, Appl |
| c 161 | 15.8 | 1.0 | 20 | 5 | PCT-US95-07744A-55 | Sequence 55, Appl | 234 | 15.6 | 1.0 | 32 | 3 | US-09-121-422-13 | Sequence 13, Appl |
| c 162 | 15.8 | 1.0 | 21 | 3 | US-09-257-799-54 | Sequence 54, Appl | 235 | 15.6 | 1.0 | 32 | 3 | US-09-121-422-14 | Sequence 14, Appl |
| c 163 | 15.8 | 1.0 | 21 | 3 | US-08-920-919A-54 | Sequence 54, Appl | 236 | 15.6 | 1.0 | 32 | 4 | US-08-065-844A-13 | Sequence 13, Appl |
| c 164 | 15.8 | 1.0 | 28 | 1 | US-08-222-638B-11 | Sequence 11, Appl | 237 | 15.6 | 1.0 | 33 | 1 | US-08-717-526-8 | Sequence 8, Appl |
| c 165 | 15.8 | 1.0 | 30 | 1 | US-08-068-747-5 | Sequence 5, Appl | 238 | 15.6 | 1.0 | 33 | 4 | US-09-117-211-1 | Sequence 1, Appl |
| c 166 | 15.8 | 1.0 | 30 | 2 | US-08-704-931-14 | Sequence 14, Appl | 239 | 15.6 | 1.0 | 33 | 5 | PCT-US94-04174-22 | Sequence 22, Appl |
| c 167 | 15.8 | 1.0 | 31 | 1 | US-08-136-119-21 | Sequence 21, Appl | 240 | 15.6 | 1.0 | 34 | 1 | US-08-480-434-14 | Sequence 14, Appl |
| c 168 | 15.8 | 1.0 | 31 | 2 | US-08-779-113-63 | Sequence 63, Appl | 241 | 15.6 | 1.0 | 34 | 1 | US-08-480-434-82 | Sequence 82, Appl |
| c 169 | 15.8 | 1.0 | 31 | 4 | US-08-773-106-16 | Sequence 16, Appl | 242 | 15.6 | 1.0 | 34 | 2 | US-08-053-445B-14 | Sequence 14, Appl |
| c 170 | 15.8 | 1.0 | 32 | 1 | US-08-437-815-9 | Sequence 9, Appl | 243 | 15.6 | 1.0 | 34 | 2 | US-08-053-451B-82 | Sequence 82, Appl |
| c 171 | 15.8 | 1.0 | 32 | 1 | US-08-469-802B-28 | Sequence 28, Appl | 244 | 15.6 | 1.0 | 34 | 2 | US-08-053-451B-110 | Sequence 110, App |
| c 172 | 15.8 | 1.0 | 32 | 1 | US-08-897-040-9 | Sequence 9, Appl | 245 | 15.6 | 1.0 | 35 | 1 | US-07-844-229-2 | Sequence 2, Appl |
| c 173 | 15.8 | 1.0 | 32 | 2 | US-08-267-803B-46 | Sequence 46, Appl | 246 | 15.6 | 1.0 | 35 | 1 | US-08-340-045-7 | Sequence 7, Appl |

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|-------|------|-----|----|---|--------------------|--------------------|-------|------|-----|----|---|--------------------|--------------------|
| C 247 | 15.6 | 1.0 | 35 | 3 | US-08-871-302A-7 | Sequence 7, Appl1 | C 320 | 15.2 | 0.9 | 21 | 1 | US-08-451-096-53 | Sequence 53, Appl1 |
| C 248 | 15.4 | 1.0 | 18 | 3 | US-09-255-912-44 | Sequence 44, Appl1 | C 321 | 15.2 | 0.9 | 21 | 1 | US-08-451-096-66 | Sequence 66, Appl1 |
| C 249 | 15.4 | 1.0 | 22 | 1 | US-08-203-905B-17 | Sequence 17, Appl1 | C 322 | 15.2 | 0.9 | 21 | 1 | US-08-413-740A-14 | Sequence 14, Appl1 |
| C 250 | 15.4 | 1.0 | 23 | 4 | US-09-686-179A-20 | Sequence 20, Appl1 | C 323 | 15.2 | 0.9 | 21 | 5 | PCT-US95-04063-14 | Sequence 14, Appl1 |
| C 251 | 15.4 | 1.0 | 25 | 2 | US-08-845-161A-45 | Sequence 45, Appl1 | C 324 | 15.2 | 0.9 | 22 | 3 | US-08-529-130B-33 | Sequence 33, Appl1 |
| C 252 | 15.4 | 1.0 | 25 | 2 | US-09-270-751-45 | Sequence 45, Appl1 | C 325 | 15.2 | 0.9 | 22 | 3 | US-08-338-579A-79 | Sequence 79, Appl1 |
| C 253 | 15.4 | 1.0 | 25 | 4 | US-08-920-422-3 | Sequence 3, Appl1 | C 326 | 15.2 | 0.9 | 22 | 4 | US-09-309-382-25 | Sequence 25, Appl1 |
| C 254 | 15.4 | 1.0 | 26 | 2 | US-08-887-798-23 | Sequence 23, Appl1 | C 327 | 15.2 | 0.9 | 22 | 4 | US-09-309-382-25 | Sequence 24, Appl1 |
| C 255 | 15.4 | 1.0 | 26 | 2 | US-08-845-161A-13 | Sequence 13, Appl1 | C 328 | 15.2 | 0.9 | 22 | 5 | PCT-US94-09851-79 | Sequence 79, Appl1 |
| C 256 | 15.4 | 1.0 | 26 | 2 | US-08-859-998-1202 | Sequence 1202, Ap | C 329 | 15.2 | 0.9 | 22 | 5 | US-08-192-942-1 | Sequence 1, Appl1 |
| C 257 | 15.4 | 1.0 | 26 | 4 | US-09-270-751-13 | Sequence 13, Appl1 | C 330 | 15.2 | 0.9 | 24 | 3 | US-09-413-452-15 | Sequence 35, Appl1 |
| C 258 | 15.4 | 1.0 | 26 | 4 | US-09-099-301-6 | Sequence 6, Appl1 | C 331 | 15.2 | 0.9 | 24 | 4 | US-09-413-068-55 | Sequence 55, Appl1 |
| C 259 | 15.4 | 1.0 | 26 | 4 | US-09-225-928-1202 | Sequence 1202, Ap | C 332 | 15.2 | 0.9 | 25 | 4 | US-09-268-163-77 | Sequence 27, Appl1 |
| C 260 | 15.4 | 1.0 | 27 | 1 | US-08-150-331-33 | Sequence 33, Appl1 | C 333 | 15.2 | 0.9 | 27 | 1 | US-08-485-602-36 | Sequence 36, Appl1 |
| C 261 | 15.4 | 1.0 | 27 | 4 | US-08-256-799-10 | Sequence 10, Appl1 | C 334 | 15.2 | 0.9 | 27 | 1 | US-08-757-180-35 | Sequence 35, Appl1 |
| C 262 | 15.4 | 1.0 | 27 | 4 | US-08-462-437-10 | Sequence 10, Appl1 | C 335 | 15.2 | 0.9 | 27 | 1 | US-08-745-638-36 | Sequence 36, Appl1 |
| C 263 | 15.4 | 1.0 | 27 | 4 | US-08-584-040-822 | Sequence 822, App | C 336 | 15.2 | 0.9 | 28 | 1 | US-08-704-398-5 | Sequence 5, Appl1 |
| C 264 | 15.4 | 1.0 | 27 | 4 | US-08-584-040-3343 | Sequence 3343, Ap | C 337 | 15.2 | 0.9 | 28 | 5 | PCT-US95-05966-5 | Sequence 5, Appl1 |
| C 265 | 15.4 | 1.0 | 27 | 4 | US-08-584-040-4774 | Sequence 4774, Ap | C 338 | 15.2 | 0.9 | 29 | 3 | US-08-840-062-13 | Sequence 13, Appl1 |
| C 266 | 15.4 | 1.0 | 27 | 4 | US-08-584-040-6338 | Sequence 6338, Ap | C 339 | 15.2 | 0.9 | 30 | 1 | US-07-642-734C-16 | Sequence 16, Appl1 |
| C 267 | 15.4 | 1.0 | 28 | 2 | US-08-874-678-28 | Sequence 28, Appl1 | C 340 | 15.2 | 0.9 | 30 | 2 | US-08-473-750-17 | Sequence 17, Appl1 |
| C 268 | 15.4 | 1.0 | 28 | 2 | US-08-558-269-8 | Sequence 8, Appl1 | C 341 | 15.2 | 0.9 | 30 | 2 | US-08-473-750-18 | Sequence 18, Appl1 |
| C 269 | 15.4 | 1.0 | 28 | 3 | US-08-643-839-28 | Sequence 28, Appl1 | C 342 | 15.2 | 0.9 | 30 | 2 | US-08-819-458A-14 | Sequence 14, Appl1 |
| C 270 | 15.4 | 1.0 | 28 | 4 | US-09-410-882-8 | Sequence 8, Appl1 | C 343 | 15.2 | 0.9 | 30 | 2 | US-08-477-326-17 | Sequence 17, Appl1 |
| C 271 | 15.4 | 1.0 | 29 | 1 | US-08-286-872-3 | Sequence 3, Appl1 | C 344 | 15.2 | 0.9 | 30 | 2 | US-08-477-326-18 | Sequence 18, Appl1 |
| C 272 | 15.4 | 1.0 | 29 | 1 | US-08-393-985-28 | Sequence 28, Appl1 | C 345 | 15.2 | 0.9 | 30 | 2 | US-08-875-034A-4 | Sequence 4, Appl1 |
| C 273 | 15.4 | 1.0 | 29 | 3 | US-08-738-381-42 | Sequence 42, Appl1 | C 346 | 15.2 | 0.9 | 30 | 2 | US-08-963-284-18 | Sequence 18, Appl1 |
| C 274 | 15.4 | 1.0 | 29 | 4 | US-09-029-341-6 | Sequence 6, Appl1 | C 347 | 15.2 | 0.9 | 30 | 3 | US-08-439-009A-16 | Sequence 16, Appl1 |
| C 275 | 15.4 | 1.0 | 29 | 4 | US-09-491-772-9 | Sequence 9, Appl1 | C 348 | 15.2 | 0.9 | 30 | 4 | US-09-166-448-13 | Sequence 43, Appl1 |
| C 276 | 15.4 | 1.0 | 29 | 5 | PCT-US95-15696-12 | Sequence 12, Appl1 | C 349 | 15.2 | 0.9 | 31 | 4 | US-09-009-443-17 | Sequence 17, Appl1 |
| C 277 | 15.4 | 1.0 | 29 | 5 | PCT-US95-15696-13 | Sequence 13, Appl1 | C 350 | 15.2 | 0.9 | 31 | 4 | US-08-679-645-111 | Sequence 11, Appl1 |
| C 278 | 15.4 | 1.0 | 30 | 1 | US-07-940-861-22 | Sequence 22, Appl1 | C 351 | 15.2 | 0.9 | 32 | 1 | US-08-602-824A-11 | Sequence 11, Appl1 |
| C 279 | 15.4 | 1.0 | 30 | 1 | US-08-387-315A-22 | Sequence 22, Appl1 | C 352 | 15.2 | 0.9 | 32 | 1 | US-07-983-451-11 | Sequence 11, Appl1 |
| C 280 | 15.4 | 1.0 | 30 | 1 | US-08-459-512-22 | Sequence 22, Appl1 | C 353 | 15.2 | 0.9 | 32 | 1 | US-08-261-577-2 | Sequence 2, Appl1 |
| C 281 | 15.4 | 1.0 | 30 | 2 | US-08-629-001A-135 | Sequence 135, App | C 354 | 15.2 | 0.9 | 32 | 3 | US-08-828-972-2 | Sequence 2, Appl1 |
| C 282 | 15.4 | 1.0 | 30 | 2 | US-08-754-559-22 | Sequence 22, Appl1 | C 355 | 15.2 | 0.9 | 33 | 1 | US-08-049-264C-25 | Sequence 25, Appl1 |
| C 283 | 15.4 | 1.0 | 30 | 2 | US-08-459-657-22 | Sequence 22, Appl1 | C 356 | 15.2 | 0.9 | 33 | 1 | US-08-476-562-25 | Sequence 25, Appl1 |
| C 284 | 15.4 | 1.0 | 30 | 2 | US-08-460-132-22 | Sequence 22, Appl1 | C 357 | 15.2 | 0.9 | 33 | 1 | US-08-285-768-2 | Sequence 2, Appl1 |
| C 285 | 15.4 | 1.0 | 30 | 3 | US-08-577-121-47 | Sequence 47, Appl1 | C 358 | 15.2 | 0.9 | 33 | 1 | US-08-479-723A-25 | Sequence 25, Appl1 |
| C 286 | 15.4 | 1.0 | 30 | 3 | US-08-913-842-44 | Sequence 44, Appl1 | C 359 | 15.2 | 0.9 | 33 | 1 | US-08-752-238-10 | Sequence 10, Appl1 |
| C 287 | 15.4 | 1.0 | 30 | 3 | US-08-468-846-3 | Sequence 3, Appl1 | C 360 | 15.2 | 0.9 | 33 | 3 | US-08-603B-10 | Sequence 10, Appl1 |
| C 288 | 15.4 | 1.0 | 30 | 3 | US-08-513-974B-136 | Sequence 136, App | C 361 | 15.2 | 0.9 | 33 | 3 | US-08-674-984-4 | Sequence 4, Appl1 |
| C 289 | 15.4 | 1.0 | 30 | 3 | US-08-513-974B-139 | Sequence 139, App | C 362 | 15.2 | 0.9 | 33 | 3 | US-08-884-324-74 | Sequence 24, Appl1 |
| C 290 | 15.4 | 1.0 | 30 | 4 | US-08-985-700-47 | Sequence 47, Appl1 | C 363 | 15.2 | 0.9 | 33 | 3 | US-08-621-841-12 | Sequence 12, Appl1 |
| C 291 | 15.4 | 1.0 | 30 | 4 | US-08-642-274D-214 | Sequence 214, App | C 364 | 15.2 | 0.9 | 33 | 3 | US-09-108-020-25 | Sequence 25, Appl1 |
| C 292 | 15.4 | 1.0 | 30 | 4 | US-08-915-096A-3 | Sequence 3, Appl1 | C 365 | 15.2 | 0.9 | 33 | 4 | US-08-427-569-29 | Sequence 29, Appl1 |
| C 293 | 15.4 | 1.0 | 30 | 5 | PCT-US92-02050-22 | Sequence 22, Appl1 | C 366 | 15.2 | 0.9 | 33 | 5 | PCT-US94-04310-25 | Sequence 25, Appl1 |
| C 294 | 15.4 | 1.0 | 30 | 5 | PCT-US95-06385-3 | Sequence 3, Appl1 | C 367 | 15.2 | 0.9 | 34 | 1 | US-08-413-813-41 | Sequence 41, Appl1 |
| C 295 | 15.4 | 1.0 | 30 | 5 | PCT-US95-16916-47 | Sequence 47, Appl1 | C 368 | 15.2 | 0.9 | 34 | 1 | US-08-467-346-41 | Sequence 41, Appl1 |
| C 296 | 15.4 | 1.0 | 31 | 4 | US-09-238-356-53 | Sequence 53, Appl1 | C 369 | 15.2 | 0.9 | 34 | 2 | US-08-110-300A-17 | Sequence 17, Appl1 |
| C 297 | 15.4 | 1.0 | 32 | 3 | US-08-938-835A-53 | Sequence 24, Appl1 | C 370 | 15.2 | 0.9 | 35 | 1 | US-08-396-613A-7 | Sequence 7, Appl1 |
| C 298 | 15.4 | 1.0 | 33 | 1 | US-08-477-254A-24 | Sequence 24, Appl1 | C 371 | 15.2 | 0.9 | 35 | 1 | US-08-398-612A-7 | Sequence 7, Appl1 |
| C 299 | 15.4 | 1.0 | 33 | 2 | US-08-472-576B-24 | Sequence 24, Appl1 | C 372 | 15.2 | 0.9 | 35 | 1 | US-08-398-611A-7 | Sequence 7, Appl1 |
| C 300 | 15.4 | 1.0 | 33 | 2 | US-08-428-734B-24 | Sequence 24, Appl1 | C 373 | 15.2 | 0.9 | 35 | 1 | US-08-396-851A-7 | Sequence 7, Appl1 |
| C 301 | 15.4 | 1.0 | 33 | 3 | US-08-506-553C-9 | Sequence 9, Appl1 | C 374 | 15.2 | 0.9 | 35 | 1 | US-08-396-851A-7 | Sequence 7, Appl1 |
| C 302 | 15.4 | 1.0 | 33 | 3 | US-09-237-712-21 | Sequence 21, Appl1 | C 375 | 15.2 | 0.9 | 35 | 2 | US-08-491-334A-7 | Sequence 7, Appl1 |
| C 303 | 15.4 | 1.0 | 33 | 4 | US-08-256-799-11 | Sequence 11, Appl1 | C 376 | 15.2 | 0.9 | 35 | 2 | US-08-866-642-17 | Sequence 17, Appl1 |
| C 304 | 15.4 | 1.0 | 33 | 4 | US-08-462-437-11 | Sequence 11, Appl1 | C 377 | 15.2 | 0.9 | 35 | 2 | US-09-027-449-7 | Sequence 7, Appl1 |
| C 305 | 15.4 | 1.0 | 33 | 4 | US-08-713-556F-24 | Sequence 4, Appl1 | C 378 | 15.2 | 0.9 | 35 | 3 | US-08-448-194-51 | Sequence 11, Appl1 |
| C 306 | 15.4 | 1.0 | 33 | 4 | US-09-880-427-4 | Sequence 34, Appl1 | C 379 | 15.2 | 0.9 | 35 | 3 | US-08-950-212-11 | Sequence 11, Appl1 |
| C 307 | 15.4 | 1.0 | 34 | 1 | US-08-533-912-34 | Sequence 34, Appl1 | C 380 | 15.2 | 0.9 | 35 | 3 | US-08-804-444A-7 | Sequence 7, Appl1 |
| C 308 | 15.4 | 1.0 | 34 | 3 | US-08-910-632-14 | Sequence 14, Appl1 | C 381 | 15.2 | 0.9 | 35 | 3 | US-09-026-985-7 | Sequence 7, Appl1 |
| C 309 | 15.4 | 1.0 | 34 | 3 | US-08-910-632-18 | Sequence 18, Appl1 | C 382 | 15.2 | 0.9 | 35 | 3 | US-08-961-083-240 | Sequence 240, App |
| C 310 | 15.4 | 1.0 | 34 | 3 | US-08-805-631A-14 | Sequence 14, Appl1 | C 383 | 15.2 | 0.9 | 35 | 4 | US-08-867-921-51 | Sequence 51, Appl1 |
| C 311 | 15.4 | 1.0 | 34 | 3 | US-08-805-631A-18 | Sequence 18, Appl1 | C 384 | 15.2 | 0.9 | 35 | 4 | US-08-250-856A-22 | Sequence 22, Appl1 |
| C 312 | 15.4 | 1.0 | 34 | 5 | PCT-US96-08044-4 | Sequence 4, Appl1 | C 385 | 15.2 | 0.9 | 35 | 4 | US-08-468-037A-12 | Sequence 12, Appl1 |
| C 313 | 15.4 | 1.0 | 35 | 1 | US-08-087-772A-11 | Sequence 11, Appl1 | C 386 | 15.2 | 0.9 | 35 | 2 | US-08-471-973A-12 | Sequence 12, Appl1 |
| C 314 | 15.4 | 1.0 | 35 | 2 | US-08-405-373C-2 | Sequence 2, Appl1 | C 387 | 15.2 | 0.9 | 35 | 2 | US-08-756-880A-22 | Sequence 22, Appl1 |
| C 315 | 15.4 | 1.0 | 35 | 4 | US-07-861-458C-50 | Sequence 50, Appl1 | C 388 | 15.2 | 0.9 | 35 | 2 | US-08-465-880-12 | Sequence 12, Appl1 |
| C 316 | 15.2 | 0.9 | 20 | 4 | US-08-857-076-4 | Sequence 4, Appl1 | C 389 | 15.2 | 0.9 | 20 | 2 | US-09-035-357-12 | Sequence 12, Appl1 |
| C 317 | 15.2 | 0.9 | 20 | 4 | US-09-428-583-74 | Sequence 74, Appl1 | C 390 | 15.2 | 0.9 | 20 | 3 | US-09-143-214-22 | Sequence 22, Appl1 |
| C 318 | 15.2 | 0.9 | 21 | 1 | US-08-219-842-53 | Sequence 53, Appl1 | C 391 | 15.2 | 0.9 | 20 | 3 | US-09-000-136-8 | Sequence 8, Appl1 |
| C 319 | 15.2 | 0.9 | 21 | 1 | US-08-219-842-86 | Sequence 86, Appl1 | C 392 | 15.2 | 0.9 | 20 | 5 | PCT-US95-07111A-22 | Sequence 22, Appl1 |

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|-------|----|-----|----|---|--------------------|--------------------|-------|------|-----|----|---|--------------------|-------------------|
| C 333 | 15 | 0.9 | 24 | 1 | US-08-464-083-11 | Sequence 11, Appl | C 466 | 15 | 0.9 | 32 | 2 | US-08-462-221-10 | Sequence 10, Appl |
| C 334 | 15 | 0.9 | 24 | 1 | US-08-467-264-8 | Sequence 8, Appl | C 467 | 15 | 0.9 | 32 | 2 | US-08-463-377-62 | Sequence 62, Appl |
| C 335 | 15 | 0.9 | 24 | 2 | US-08-469-587A-11 | Sequence 11, Appl | C 468 | 15 | 0.9 | 32 | 2 | US-08-305-764C-37 | Sequence 37, Appl |
| C 336 | 15 | 0.9 | 24 | 3 | US-08-318-038D-11 | Sequence 11, Appl | C 469 | 15 | 0.9 | 32 | 2 | US-08-349-131-53 | Sequence 53, Appl |
| C 337 | 15 | 0.9 | 24 | 3 | US-08-227-496C-11 | Sequence 11, Appl | C 470 | 15 | 0.9 | 32 | 3 | US-08-470-297A-53 | Sequence 53, Appl |
| C 338 | 15 | 0.9 | 24 | 4 | US-09-475-460A-1 | Sequence 1, Appl | C 471 | 15 | 0.9 | 32 | 3 | US-08-946-458-10 | Sequence 10, Appl |
| C 339 | 15 | 0.9 | 27 | 1 | US-08-696-770-6 | Sequence 6, Appl | C 472 | 15 | 0.9 | 32 | 3 | US-07-861-458C-46 | Sequence 46, Appl |
| C 400 | 15 | 0.9 | 27 | 2 | US-09-015-557-6 | Sequence 6, Appl | C 473 | 15 | 0.9 | 32 | 4 | PCT-US91-07149-53 | Sequence 53, Appl |
| C 401 | 15 | 0.9 | 27 | 2 | US-08-778-494B-79 | Sequence 79, Appl | C 474 | 15 | 0.9 | 33 | 1 | US-08-225-224-46 | Sequence 46, Appl |
| C 402 | 15 | 0.9 | 27 | 3 | US-08-985-162-1390 | Sequence 1390, Ap | C 475 | 15 | 0.9 | 33 | 1 | US-08-294-424-29 | Sequence 29, Appl |
| C 403 | 15 | 0.9 | 27 | 4 | US-09-253-396A-122 | Sequence 122, App | C 476 | 15 | 0.9 | 33 | 2 | US-09-003-199-13 | Sequence 13, Appl |
| C 404 | 15 | 0.9 | 27 | 4 | US-08-584-040-281 | Sequence 281, App | C 477 | 15 | 0.9 | 33 | 3 | US-08-722-258-46 | Sequence 46, Appl |
| C 405 | 15 | 0.9 | 27 | 4 | US-08-584-040-540 | Sequence 540, App | C 478 | 15 | 0.9 | 33 | 4 | US-09-258-797-67 | Sequence 67, Appl |
| C 406 | 15 | 0.9 | 27 | 4 | US-08-584-040-6619 | Sequence 6619, Ap | C 479 | 15 | 0.9 | 33 | 5 | PCT-US95-04468-16 | Sequence 46, Appl |
| C 407 | 15 | 0.9 | 27 | 4 | US-08-584-040-6738 | Sequence 6738, Ap | C 480 | 15 | 0.9 | 33 | 5 | PCT-US96-09451-67 | Sequence 67, Appl |
| C 408 | 15 | 0.9 | 27 | 4 | US-08-584-040-6874 | Sequence 6874, Ap | C 481 | 15 | 0.9 | 34 | 1 | US-08-413-813-24 | Sequence 24, Appl |
| C 409 | 15 | 0.9 | 27 | 4 | US-08-584-040-6877 | Sequence 6877, Ap | C 482 | 15 | 0.9 | 34 | 2 | US-08-467-346-24 | Sequence 24, Appl |
| C 410 | 15 | 0.9 | 27 | 4 | US-08-584-040-6881 | Sequence 6881, Ap | C 483 | 15 | 0.9 | 34 | 3 | US-08-938-830-49 | Sequence 49, Appl |
| C 411 | 15 | 0.9 | 28 | 4 | US-08-348-548-82 | Sequence 82, Appl | C 484 | 15 | 0.9 | 34 | 3 | US-09-178-089-14 | Sequence 14, Appl |
| C 412 | 15 | 0.9 | 28 | 5 | PCT-US95-15716-82 | Sequence 82, Appl | C 485 | 15 | 0.9 | 35 | 1 | US-08-361-337-15 | Sequence 15, Appl |
| C 413 | 15 | 0.9 | 29 | 1 | US-08-686-878A-62 | Sequence 62, Appl | C 486 | 15 | 0.9 | 35 | 2 | US-08-441-887A-321 | Sequence 321, App |
| C 414 | 15 | 0.9 | 29 | 2 | US-08-889-909A-14 | Sequence 14, Appl | C 487 | 15 | 0.9 | 35 | 3 | US-08-544-381B-221 | Sequence 221, App |
| C 415 | 15 | 0.9 | 29 | 2 | US-08-852-806-10 | Sequence 10, Appl | C 488 | 15 | 0.9 | 35 | 3 | US-08-559-397A-34 | Sequence 34, Appl |
| C 416 | 15 | 0.9 | 29 | 2 | US-09-163-666-10 | Sequence 10, Appl | C 489 | 15 | 0.9 | 35 | 3 | US-08-530-492-60 | Sequence 60, Appl |
| C 417 | 15 | 0.9 | 29 | 4 | US-09-175-928-55 | Sequence 55, Appl | C 490 | 14.8 | 0.9 | 18 | 2 | US-08-282-197C-14 | Sequence 14, Appl |
| C 418 | 15 | 0.9 | 29 | 4 | US-09-156-165A-14 | Sequence 14, Appl | C 491 | 14.8 | 0.9 | 18 | 4 | US-08-906-517-60 | Sequence 60, Appl |
| C 419 | 15 | 0.9 | 30 | 1 | US-07-860-925-15 | Sequence 15, Appl | C 492 | 14.8 | 0.9 | 18 | 4 | US-09-522-217-23 | Sequence 23, Appl |
| C 420 | 15 | 0.9 | 30 | 1 | US-08-334-215-15 | Sequence 15, Appl | C 493 | 14.8 | 0.9 | 20 | 1 | US-08-157-235-12 | Sequence 12, Appl |
| C 421 | 15 | 0.9 | 30 | 2 | US-08-454-557C-5 | Sequence 5, Appl | C 494 | 14.8 | 0.9 | 20 | 4 | US-09-132-028-3 | Sequence 3, Appl |
| C 422 | 15 | 0.9 | 30 | 2 | US-08-340-426D-5 | Sequence 5, Appl | C 495 | 14.8 | 0.9 | 20 | 4 | US-09-210-748A-12 | Sequence 12, Appl |
| C 423 | 15 | 0.9 | 30 | 2 | US-08-450-673C-5 | Sequence 5, Appl | C 496 | 14.8 | 0.9 | 21 | 4 | US-09-428-583-6 | Sequence 6, Appl |
| C 424 | 15 | 0.9 | 30 | 3 | US-09-117-708-10 | Sequence 10, Appl | C 497 | 14.8 | 0.9 | 22 | 3 | US-09-102-830-15 | Sequence 15, Appl |
| C 425 | 15 | 0.9 | 30 | 3 | US-08-444-818-136 | Sequence 196, App | C 498 | 14.8 | 0.9 | 22 | 3 | US-09-102-830-30 | Sequence 30, Appl |
| C 426 | 15 | 0.9 | 30 | 4 | US-09-284-900-10 | Sequence 10, Appl | C 499 | 14.8 | 0.9 | 24 | 1 | US-08-465-550-52 | Sequence 52, Appl |
| C 427 | 15 | 0.9 | 30 | 5 | PCT-US95-17111A-5 | Sequence 5, Appl | C 500 | 14.8 | 0.9 | 24 | 4 | US-08-465-343A-5 | Sequence 5, Appl |
| C 428 | 15 | 0.9 | 31 | 1 | US-08-038-385-6 | Sequence 6, Appl | C 501 | 14.8 | 0.9 | 24 | 4 | US-08-711-417C-52 | Sequence 52, Appl |
| C 429 | 15 | 0.9 | 31 | 1 | US-08-309-560-18 | Sequence 18, Appl | C 502 | 14.8 | 0.9 | 24 | 5 | PCT-US93-08743-52 | Sequence 52, Appl |
| C 430 | 15 | 0.9 | 31 | 1 | US-08-189-630-1 | Sequence 1, Appl | C 503 | 14.8 | 0.9 | 25 | 1 | US-07-989-160-9 | Sequence 9, Appl |
| C 431 | 15 | 0.9 | 31 | 1 | US-08-125-012-30 | Sequence 30, Appl | C 504 | 14.8 | 0.9 | 25 | 1 | US-08-373-124A-7 | Sequence 7, Appl |
| C 432 | 15 | 0.9 | 31 | 1 | US-08-466-667-1 | Sequence 1, Appl | C 505 | 14.8 | 0.9 | 25 | 1 | US-08-435-628-7 | Sequence 7, Appl |
| C 433 | 15 | 0.9 | 31 | 1 | US-08-221-579A-24 | Sequence 24, Appl | C 506 | 14.8 | 0.9 | 25 | 2 | US-09-092-770-9 | Sequence 9, Appl |
| C 434 | 15 | 0.9 | 31 | 1 | US-08-783-818-30 | Sequence 30, Appl | C 507 | 14.8 | 0.9 | 26 | 2 | US-08-859-998-315 | Sequence 315, App |
| C 435 | 15 | 0.9 | 31 | 2 | US-08-453-348-30 | Sequence 30, Appl | C 508 | 14.8 | 0.9 | 26 | 3 | US-09-004-113-39 | Sequence 39, Appl |
| C 436 | 15 | 0.9 | 31 | 2 | US-08-880-357-34 | Sequence 34, Appl | C 509 | 14.8 | 0.9 | 26 | 4 | US-09-222-851-9 | Sequence 9, Appl |
| C 437 | 15 | 0.9 | 31 | 2 | US-08-646-590B-38 | Sequence 38, Appl | C 510 | 14.8 | 0.9 | 26 | 4 | US-09-225-928-315 | Sequence 315, App |
| C 438 | 15 | 0.9 | 31 | 2 | US-08-646-590B-42 | Sequence 42, Appl | C 511 | 14.8 | 0.9 | 27 | 1 | US-08-461-823-10 | Sequence 10, Appl |
| C 439 | 15 | 0.9 | 31 | 2 | US-08-704-701-24 | Sequence 24, Appl | C 512 | 14.8 | 0.9 | 27 | 1 | US-07-936-421-17 | Sequence 17, Appl |
| C 440 | 15 | 0.9 | 31 | 2 | US-08-850-049-102 | Sequence 102, App | C 513 | 14.8 | 0.9 | 27 | 1 | US-08-758-306-944 | Sequence 944, App |
| C 441 | 15 | 0.9 | 31 | 2 | US-08-050-478-102 | Sequence 102, App | C 514 | 14.8 | 0.9 | 27 | 2 | US-08-418-848A-19 | Sequence 19, Appl |
| C 442 | 15 | 0.9 | 31 | 2 | US-08-979-385B-28 | Sequence 28, Appl | C 515 | 14.8 | 0.9 | 27 | 3 | US-09-357-071-4 | Sequence 4, Appl |
| C 443 | 15 | 0.9 | 31 | 3 | US-08-685-871-22 | Sequence 22, Appl | C 516 | 14.8 | 0.9 | 27 | 3 | US-08-985-162-1476 | Sequence 1476, Ap |
| C 444 | 15 | 0.9 | 31 | 3 | US-09-189-583-34 | Sequence 34, Appl | C 517 | 14.8 | 0.9 | 27 | 3 | US-09-243-810-6 | Sequence 6, Appl |
| C 445 | 15 | 0.9 | 31 | 4 | US-09-321-461-24 | Sequence 24, Appl | C 518 | 14.8 | 0.9 | 27 | 4 | US-09-012-097A-36 | Sequence 36, Appl |
| C 446 | 15 | 0.9 | 31 | 4 | US-09-412-184-38 | Sequence 38, Appl | C 519 | 14.8 | 0.9 | 27 | 4 | US-09-049-569-3 | Sequence 3, Appl |
| C 447 | 15 | 0.9 | 31 | 4 | US-09-412-184-42 | Sequence 42, Appl | C 520 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-453 | Sequence 453, App |
| C 448 | 15 | 0.9 | 31 | 4 | US-09-414-117-102 | Sequence 102, App | C 521 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-733 | Sequence 733, App |
| C 449 | 15 | 0.9 | 31 | 4 | US-08-357-398A-16 | Sequence 16, Appl | C 522 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-1115 | Sequence 1115, Ap |
| C 450 | 15 | 0.9 | 31 | 5 | PCT-US93-06759-6 | Sequence 6, Appl | C 523 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-5265 | Sequence 5265, Ap |
| C 451 | 15 | 0.9 | 31 | 5 | PCT-US94-05821A-18 | Sequence 18, Appl | C 524 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-6305 | Sequence 6305, Ap |
| C 452 | 15 | 0.9 | 31 | 5 | PCT-US95-16206A-16 | Sequence 16, Appl | C 525 | 14.8 | 0.9 | 27 | 4 | US-08-584-040-6305 | Sequence 6305, Ap |
| C 453 | 15 | 0.9 | 31 | 6 | 5211936-1 | Patent No. 5211936 | C 526 | 14.8 | 0.9 | 28 | 1 | US-08-324-001-12 | Sequence 12, Appl |
| C 454 | 15 | 0.9 | 31 | 6 | 5428025-1 | Patent No. 5428025 | C 527 | 14.8 | 0.9 | 28 | 1 | US-08-324-001-13 | Sequence 13, Appl |
| C 455 | 15 | 0.9 | 31 | 6 | 5470842-1 | Patent No. 5470842 | C 528 | 14.8 | 0.9 | 28 | 1 | US-08-324-001-16 | Sequence 16, Appl |
| C 456 | 15 | 0.9 | 31 | 6 | 5492811-7 | Patent No. 5492811 | C 529 | 14.8 | 0.9 | 28 | 1 | US-08-324-001-21 | Sequence 21, Appl |
| C 457 | 15 | 0.9 | 32 | 1 | US-07-940-652-1 | Sequence 1, Appl | C 530 | 14.8 | 0.9 | 28 | 1 | US-08-324-001-22 | Sequence 22, Appl |
| C 458 | 15 | 0.9 | 32 | 1 | US-07-940-652-24 | Sequence 24, Appl | C 531 | 14.8 | 0.9 | 28 | 1 | US-08-439-818A-16 | Sequence 16, Appl |
| C 459 | 15 | 0.9 | 32 | 1 | US-07-940-652-29 | Sequence 29, Appl | C 532 | 14.8 | 0.9 | 28 | 1 | US-08-503-691-5 | Sequence 5, Appl |
| C 460 | 15 | 0.9 | 32 | 1 | US-08-255-553-1 | Sequence 1, Appl | C 533 | 14.8 | 0.9 | 28 | 1 | US-08-405-254-1 | Sequence 1, Appl |
| C 461 | 15 | 0.9 | 32 | 1 | US-08-255-553-24 | Sequence 24, Appl | C 534 | 14.8 | 0.9 | 28 | 2 | US-08-751-965-16 | Sequence 16, Appl |
| C 462 | 15 | 0.9 | 32 | 1 | US-08-255-553-29 | Sequence 29, Appl | C 535 | 14.8 | 0.9 | 28 | 2 | US-08-738-975-16 | Sequence 16, Appl |
| C 463 | 15 | 0.9 | 32 | 1 | US-08-343-785-10 | Sequence 10, Appl | C 536 | 14.8 | 0.9 | 28 | 2 | US-08-728-626-16 | Sequence 16, Appl |
| C 464 | 15 | 0.9 | 32 | 1 | US-08-464-136-53 | Sequence 53, Appl | C 537 | 14.8 | 0.9 | 28 | 2 | US-08-841-483-12 | Sequence 12, Appl |
| C 465 | 15 | 0.9 | 32 | 1 | US-08-463-224-62 | Sequence 62, Appl | C 538 | 14.8 | 0.9 | 28 | 3 | US-08-808-599A-16 | Sequence 16, Appl |

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|-----|------|-----|----|---|--------------------|-------------------|-----|------|-----|----|---|--------------------|--------------------|
| 539 | 14.8 | 0.9 | 28 | 4 | US-09-382-911-12 | Sequence 12, Appl | 612 | 14.6 | 0.9 | 22 | 3 | US-08-781-891-1 | Sequence 1, Appl1 |
| 540 | 14.8 | 0.9 | 28 | 4 | US-08-821-994-10 | Sequence 10, Appl | 613 | 14.6 | 0.9 | 22 | 3 | US-08-781-891-167 | Sequence 167, App |
| 541 | 14.8 | 0.9 | 29 | 2 | US-08-374-764A-4 | Sequence 4, Appl | 614 | 14.6 | 0.9 | 22 | 3 | US-08-513-974B-223 | Sequence 223, App |
| 542 | 14.8 | 0.9 | 29 | 2 | US-08-374-764A-4 | Sequence 4, Appl | 615 | 14.6 | 0.9 | 22 | 4 | US-09-240-918-10 | Sequence 10, Appl |
| 543 | 14.8 | 0.9 | 29 | 3 | US-08-682-794-9 | Sequence 9, Appl1 | 616 | 14.6 | 0.9 | 22 | 4 | US-09-367-206-25 | Sequence 25, Appl |
| 544 | 14.8 | 0.9 | 29 | 4 | US-09-467-952-9 | Sequence 9, Appl1 | 617 | 14.6 | 0.9 | 22 | 4 | US-09-043-149-9 | Sequence 9, Appl1 |
| 545 | 14.8 | 0.9 | 30 | 1 | US-08-219-012-46 | Sequence 46, Appl | 618 | 14.6 | 0.9 | 24 | 1 | US-08-250-849-3 | Sequence 3, Appl1 |
| 546 | 14.8 | 0.9 | 30 | 1 | US-08-381-572-24 | Sequence 24, Appl | 619 | 14.6 | 0.9 | 24 | 1 | US-08-166-160-11 | Sequence 11, Appl |
| 547 | 14.8 | 0.9 | 30 | 1 | US-08-428-370A-12 | Sequence 12, Appl | 620 | 14.6 | 0.9 | 24 | 1 | US-08-434-474-3 | Sequence 3, Appl1 |
| 548 | 14.8 | 0.9 | 30 | 1 | US-08-166-229-26 | Sequence 26, Appl | 621 | 14.6 | 0.9 | 24 | 1 | US-08-554-133-5 | Sequence 5, Appl1 |
| 549 | 14.8 | 0.9 | 30 | 1 | US-08-592-820-24 | Sequence 24, Appl | 622 | 14.6 | 0.9 | 24 | 1 | US-08-477-359-7 | Sequence 7, Appl1 |
| 550 | 14.8 | 0.9 | 30 | 2 | US-08-600-764-12 | Sequence 12, Appl | 623 | 14.6 | 0.9 | 24 | 2 | US-08-761-704-12 | Sequence 12, Appl |
| 551 | 14.8 | 0.9 | 30 | 2 | US-08-470-124-26 | Sequence 26, Appl | 624 | 14.6 | 0.9 | 24 | 2 | US-08-995-161-7 | Sequence 7, Appl1 |
| 552 | 14.8 | 0.9 | 30 | 4 | US-08-687-421-234 | Sequence 234, App | 625 | 14.6 | 0.9 | 24 | 2 | US-09-063-927-10 | Sequence 10, Appl |
| 553 | 14.8 | 0.9 | 30 | 4 | US-08-348-548-13 | Sequence 13, Appl | 626 | 14.6 | 0.9 | 24 | 4 | US-09-095-372-12 | Sequence 12, Appl1 |
| 554 | 14.8 | 0.9 | 30 | 5 | US-09-443-501A-3 | Sequence 3, Appl1 | 627 | 14.6 | 0.9 | 25 | 1 | US-07-931-473B-129 | Sequence 129, App |
| 555 | 14.8 | 0.9 | 30 | 5 | PCT-US95-15716-13 | Sequence 13, Appl | 628 | 14.6 | 0.9 | 25 | 1 | US-07-714-131C-129 | Sequence 129, App |
| 556 | 14.8 | 0.9 | 31 | 1 | US-08-333-565-42 | Sequence 42, Appl | 629 | 14.6 | 0.9 | 25 | 1 | US-08-412-110-129 | Sequence 129, App |
| 557 | 14.8 | 0.9 | 31 | 1 | US-08-149-093A-1 | Sequence 1, Appl1 | 630 | 14.6 | 0.9 | 25 | 1 | US-08-409-442A-129 | Sequence 129, App |
| 558 | 14.8 | 0.9 | 31 | 1 | US-08-911-245-1 | Sequence 1, Appl1 | 631 | 14.6 | 0.9 | 25 | 1 | US-08-479-852-46 | Sequence 7, Appl1 |
| 559 | 14.8 | 0.9 | 31 | 1 | US-08-553-058C-1 | Sequence 1, Appl1 | 632 | 14.6 | 0.9 | 25 | 1 | US-08-479-852-46 | Sequence 7, Appl1 |
| 560 | 14.8 | 0.9 | 31 | 2 | US-08-661-479-42 | Sequence 42, Appl | 633 | 14.6 | 0.9 | 25 | 2 | US-08-460-609A-129 | Sequence 126, App |
| 561 | 14.8 | 0.9 | 31 | 2 | US-08-514-451A-1 | Sequence 1, Appl1 | 634 | 14.6 | 0.9 | 25 | 2 | US-08-462-646-46 | Sequence 126, App |
| 562 | 14.8 | 0.9 | 31 | 2 | US-08-723-306-9 | Sequence 9, Appl1 | 635 | 14.6 | 0.9 | 25 | 2 | US-08-462-646-126 | Sequence 126, App |
| 563 | 14.8 | 0.9 | 31 | 2 | US-08-750-703-13 | Sequence 13, Appl | 636 | 14.6 | 0.9 | 25 | 2 | US-09-038-227-30 | Sequence 30, Appl |
| 564 | 14.8 | 0.9 | 31 | 2 | US-08-640-732-1 | Sequence 1, Appl1 | 637 | 14.6 | 0.9 | 25 | 2 | US-08-866-162A-20 | Sequence 20, Appl |
| 565 | 14.8 | 0.9 | 31 | 3 | US-08-589-939-9 | Sequence 9, Appl1 | 638 | 14.6 | 0.9 | 25 | 3 | US-09-143-190-129 | Sequence 129, App |
| 566 | 14.8 | 0.9 | 31 | 3 | US-09-170-331-1 | Sequence 1, Appl1 | 639 | 14.6 | 0.9 | 25 | 3 | US-09-243-335-9 | Sequence 9, Appl1 |
| 567 | 14.8 | 0.9 | 31 | 3 | US-09-032-894-111 | Sequence 111, App | 640 | 14.6 | 0.9 | 25 | 4 | US-09-013-406-46 | Sequence 46, Appl |
| 568 | 14.8 | 0.9 | 31 | 4 | US-09-031-626-111 | Sequence 111, App | 641 | 14.6 | 0.9 | 25 | 4 | US-09-013-406-126 | Sequence 126, App |
| 569 | 14.8 | 0.9 | 31 | 4 | US-09-510-473-1 | Sequence 1, Appl1 | 642 | 14.6 | 0.9 | 26 | 2 | US-08-859-998-21 | Sequence 21, Appl |
| 570 | 14.8 | 0.9 | 31 | 4 | US-08-679-645-476 | Sequence 476, App | 643 | 14.6 | 0.9 | 26 | 4 | US-09-225-928-21 | Sequence 21, Appl |
| 571 | 14.8 | 0.9 | 31 | 5 | PCT-US94-12778-1 | Sequence 1, Appl1 | 644 | 14.6 | 0.9 | 27 | 1 | US-08-243-542-20 | Sequence 20, Appl |
| 572 | 14.8 | 0.9 | 31 | 5 | PCT-US96-10041-9 | Sequence 9, Appl1 | 645 | 14.6 | 0.9 | 27 | 1 | US-08-477-407-20 | Sequence 20, Appl |
| 573 | 14.8 | 0.9 | 32 | 3 | US-08-833-553-11 | Sequence 11, Appl | 646 | 14.6 | 0.9 | 27 | 1 | US-08-621-897-1 | Sequence 1, Appl1 |
| 574 | 14.8 | 0.9 | 32 | 3 | US-09-418-222-11 | Sequence 11, Appl | 647 | 14.6 | 0.9 | 27 | 1 | US-08-484-355-20 | Sequence 20, Appl |
| 575 | 14.8 | 0.9 | 32 | 5 | PCT-US96-08142-4 | Sequence 4, Appl | 648 | 14.6 | 0.9 | 27 | 1 | US-08-756-306-390 | Sequence 390, App |
| 576 | 14.8 | 0.9 | 33 | 1 | US-07-689-008-14 | Sequence 14, Appl | 649 | 14.6 | 0.9 | 27 | 2 | US-08-267-803B-1 | Sequence 83, Appl |
| 577 | 14.8 | 0.9 | 33 | 1 | US-08-067-684-9 | Sequence 9, Appl | 650 | 14.6 | 0.9 | 27 | 2 | US-08-480-473B-28 | Sequence 28, Appl |
| 578 | 14.8 | 0.9 | 33 | 1 | US-08-008-898-9 | Sequence 9, Appl1 | 651 | 14.6 | 0.9 | 27 | 3 | US-08-915-213-28 | Sequence 28, Appl |
| 579 | 14.8 | 0.9 | 33 | 2 | US-08-458-818-9 | Sequence 9, Appl1 | 652 | 14.6 | 0.9 | 27 | 3 | US-08-985-162-1329 | Sequence 1329, App |
| 580 | 14.8 | 0.9 | 33 | 2 | US-08-889-666-9 | Sequence 9, Appl1 | 653 | 14.6 | 0.9 | 27 | 4 | US-09-235-217-28 | Sequence 28, Appl |
| 581 | 14.8 | 0.9 | 33 | 2 | US-08-465-078-9 | Sequence 9, Appl1 | 654 | 14.6 | 0.9 | 27 | 4 | US-08-584-040-557 | Sequence 557, App |
| 582 | 14.8 | 0.9 | 33 | 2 | US-08-725-776-9 | Sequence 9, Appl1 | 655 | 14.6 | 0.9 | 27 | 4 | US-08-584-040-1114 | Sequence 1114, App |
| 583 | 14.8 | 0.9 | 33 | 2 | US-08-488-062-9 | Sequence 9, Appl1 | 656 | 14.6 | 0.9 | 27 | 4 | US-08-584-040-1119 | Sequence 1119, App |
| 584 | 14.8 | 0.9 | 33 | 2 | US-08-228-208A-9 | Sequence 9, Appl1 | 657 | 14.6 | 0.9 | 27 | 4 | US-08-584-040-1124 | Sequence 1124, App |
| 585 | 14.8 | 0.9 | 34 | 2 | US-08-473-750-21 | Sequence 21, Appl | 658 | 14.6 | 0.9 | 27 | 4 | US-08-584-040-3087 | Sequence 3087, App |
| 586 | 14.8 | 0.9 | 34 | 2 | US-08-779-113-43 | Sequence 43, Appl | 659 | 14.6 | 0.9 | 27 | 5 | PCT-US96-10251-28 | Sequence 28, Appl |
| 587 | 14.8 | 0.9 | 34 | 2 | US-08-477-326-21 | Sequence 21, Appl | 660 | 14.6 | 0.9 | 28 | 1 | US-08-633-760-8 | Sequence 8, Appl1 |
| 588 | 14.8 | 0.9 | 34 | 2 | US-08-933-358-19 | Sequence 19, Appl | 661 | 14.6 | 0.9 | 28 | 2 | US-08-867-941-31 | Sequence 31, Appl |
| 589 | 14.8 | 0.9 | 34 | 3 | US-08-213-741-9 | Sequence 9, Appl1 | 662 | 14.6 | 0.9 | 28 | 2 | US-08-867-941-33 | Sequence 33, Appl |
| 590 | 14.8 | 0.9 | 34 | 3 | US-08-910-632-16 | Sequence 16, Appl | 663 | 14.6 | 0.9 | 28 | 2 | US-08-867-941-36 | Sequence 36, Appl |
| 591 | 14.8 | 0.9 | 34 | 3 | US-08-910-632-19 | Sequence 19, Appl | 664 | 14.6 | 0.9 | 28 | 4 | US-09-074-658-31 | Sequence 31, Appl |
| 592 | 14.8 | 0.9 | 34 | 3 | US-08-805-631A-16 | Sequence 16, Appl | 665 | 14.6 | 0.9 | 28 | 4 | US-09-074-658-33 | Sequence 33, Appl |
| 593 | 14.8 | 0.9 | 34 | 3 | US-08-805-631A-19 | Sequence 19, Appl | 666 | 14.6 | 0.9 | 28 | 4 | US-09-074-658-36 | Sequence 36, Appl |
| 594 | 14.8 | 0.9 | 34 | 3 | US-09-257-584-27 | Sequence 27, Appl | 667 | 14.6 | 0.9 | 29 | 1 | US-07-931-473B-32 | Sequence 32, Appl |
| 595 | 14.8 | 0.9 | 34 | 4 | US-09-254-023B-30 | Sequence 30, Appl | 668 | 14.6 | 0.9 | 29 | 1 | US-07-714-131C-32 | Sequence 32, Appl |
| 596 | 14.8 | 0.9 | 34 | 4 | US-08-522-336-9 | Sequence 9, Appl1 | 669 | 14.6 | 0.9 | 29 | 1 | US-08-412-110-32 | Sequence 32, Appl |
| 597 | 14.8 | 0.9 | 35 | 1 | US-08-110-158-2 | Sequence 2, Appl1 | 670 | 14.6 | 0.9 | 29 | 1 | US-08-409-442A-32 | Sequence 32, Appl |
| 598 | 14.8 | 0.9 | 35 | 1 | US-08-173-489C-19 | Sequence 19, Appl | 671 | 14.6 | 0.9 | 29 | 2 | US-08-442-063A-2 | Sequence 2, Appl1 |
| 599 | 14.8 | 0.9 | 35 | 3 | US-08-961-083-431 | Sequence 431, App | 672 | 14.6 | 0.9 | 29 | 2 | US-08-460-609A-32 | Sequence 32, Appl |
| 600 | 14.8 | 0.9 | 35 | 3 | US-09-199-149-21 | Sequence 21, Appl | 673 | 14.6 | 0.9 | 29 | 2 | US-08-600-999-13 | Sequence 13, Appl |
| 601 | 14.8 | 0.9 | 35 | 4 | US-09-070-408-45 | Sequence 45, Appl | 674 | 14.6 | 0.9 | 29 | 2 | US-08-859-998-355 | Sequence 355, App |
| 602 | 14.8 | 0.9 | 35 | 4 | US-08-863-639A-63 | Sequence 63, Appl | 675 | 14.6 | 0.9 | 29 | 3 | US-08-685-871-19 | Sequence 19, Appl |
| 603 | 14.6 | 0.9 | 21 | 2 | US-08-863-639A-75 | Sequence 75, Appl | 676 | 14.6 | 0.9 | 29 | 3 | US-09-143-190-32 | Sequence 32, Appl |
| 604 | 14.6 | 0.9 | 21 | 2 | US-08-991-840A-12 | Sequence 12, Appl | 677 | 14.6 | 0.9 | 29 | 3 | US-08-513-974B-61 | Sequence 61, Appl |
| 605 | 14.6 | 0.9 | 21 | 4 | US-08-117-952-370 | Sequence 370, App | 678 | 14.6 | 0.9 | 29 | 4 | US-08-776-971-32 | Sequence 32, Appl |
| 606 | 14.6 | 0.9 | 22 | 2 | US-08-450-905B-82 | Sequence 82, Appl | 679 | 14.6 | 0.9 | 29 | 4 | US-09-225-928-355 | Sequence 355, App |
| 607 | 14.6 | 0.9 | 22 | 2 | US-08-450-905B-167 | Sequence 167, App | 680 | 14.6 | 0.9 | 30 | 1 | US-07-862-831A-15 | Sequence 15, Appl |
| 608 | 14.6 | 0.9 | 22 | 2 | US-08-770-344-28 | Sequence 28, Appl | 681 | 14.6 | 0.9 | 30 | 1 | US-08-126-849A-15 | Sequence 15, Appl |
| 609 | 14.6 | 0.9 | 22 | 2 | US-07-982-759F-82 | Sequence 82, Appl | 682 | 14.6 | 0.9 | 30 | 1 | US-08-250-864-1 | Sequence 1, Appl1 |
| 610 | 14.6 | 0.9 | 22 | 3 | US-07-982-759F-82 | Sequence 167, App | 683 | 14.6 | 0.9 | 30 | 1 | US-08-434-474-1 | Sequence 1, Appl1 |
| 611 | 14.6 | 0.9 | 22 | 3 | US-07-982-759F-167 | Sequence 167, App | 684 | 14.6 | 0.9 | 30 | 2 | US-08-545-562A-41 | Sequence 41, Appl |

| | | | | | | | | | | | | | |
|-------|------|-----|----|---|--------------------|--------------------|-------|------|-----|----|---|--------------------|--------------------|
| 685 | 14.6 | 0.9 | 30 | 2 | US-08-936-387-15 | Sequence 15, Appl | c 758 | 14.4 | 0.9 | 21 | 3 | US-09-044-908-56 | Sequence 56, Appl |
| 686 | 14.6 | 0.9 | 30 | 3 | US-08-765-856-10 | Sequence 10, Appl | c 759 | 14.4 | 0.9 | 24 | 1 | US-07-866-018-2 | Sequence 2, Appl1 |
| 687 | 14.6 | 0.9 | 30 | 3 | US-08-513-974B-140 | Sequence 140, App | c 760 | 14.4 | 0.9 | 24 | 1 | US-08-102-372-2 | Sequence 2, Appl1 |
| 688 | 14.6 | 0.9 | 30 | 4 | US-08-935-009A-12 | Sequence 12, Appl | c 761 | 14.4 | 0.9 | 24 | 1 | US-08-296-880-2 | Sequence 2, Appl1 |
| 689 | 14.6 | 0.9 | 30 | 4 | US-09-029-341-10 | Sequence 10, Appl | c 762 | 14.4 | 0.9 | 24 | 1 | US-08-166-166-13 | Sequence 13, Appl |
| 690 | 14.6 | 0.9 | 30 | 4 | US-09-098-707A-8 | Sequence 8, Appl1 | c 763 | 14.4 | 0.9 | 24 | 1 | US-08-561-478-2 | Sequence 2, Appl1 |
| c 691 | 14.6 | 0.9 | 30 | 4 | US-09-242-743-5 | Sequence 5, Appl1 | c 764 | 14.4 | 0.9 | 24 | 1 | US-08-643-709A-2 | Sequence 2, Appl1 |
| c 692 | 14.6 | 0.9 | 30 | 4 | US-09-483-539-8 | Sequence 8, Appl1 | c 765 | 14.4 | 0.9 | 24 | 1 | US-08-877-460-2 | Sequence 2, Appl1 |
| c 693 | 14.6 | 0.9 | 30 | 5 | PCR-US94-09143-15 | Sequence 15, Appl | c 766 | 14.4 | 0.9 | 24 | 2 | US-08-755-728-20 | Sequence 20, Appl1 |
| c 694 | 14.6 | 0.9 | 31 | 1 | US-07-971-819A-43 | Sequence 43, Appl | c 767 | 14.4 | 0.9 | 24 | 2 | US-08-832-935-11 | Sequence 2, Appl1 |
| c 695 | 14.6 | 0.9 | 31 | 1 | US-08-390-850-337 | Sequence 337, App | c 768 | 14.4 | 0.9 | 24 | 2 | US-08-974-655-20 | Sequence 20, Appl1 |
| c 696 | 14.6 | 0.9 | 31 | 1 | US-08-475-231-43 | Sequence 43, Appl | c 769 | 14.4 | 0.9 | 24 | 2 | US-08-860-882A-50 | Sequence 50, Appl |
| c 697 | 14.6 | 0.9 | 31 | 1 | US-08-117-083-32 | Sequence 32, Appl | c 770 | 14.4 | 0.9 | 24 | 2 | US-09-068-109-4 | Sequence 4, Appl1 |
| c 698 | 14.6 | 0.9 | 31 | 1 | US-08-435-634-337 | Sequence 337, App | c 771 | 14.4 | 0.9 | 24 | 2 | US-08-859-998-943 | Sequence 943, App |
| c 699 | 14.6 | 0.9 | 31 | 2 | US-08-776-944-1 | Sequence 1, Appl1 | c 772 | 14.4 | 0.9 | 24 | 3 | US-07-602-848E-8 | Sequence 8, Appl1 |
| c 700 | 14.6 | 0.9 | 31 | 3 | US-09-234-163-7 | Sequence 7, Appl1 | c 773 | 14.4 | 0.9 | 24 | 3 | US-09-046-578-10 | Sequence 10, Appl |
| c 701 | 14.6 | 0.9 | 31 | 3 | US-09-234-163-8 | Sequence 8, Appl1 | c 774 | 14.4 | 0.9 | 24 | 4 | US-09-416-050A-11 | Sequence 11, Appl |
| c 702 | 14.6 | 0.9 | 31 | 4 | US-09-258-754-446 | Sequence 446, App | c 775 | 14.4 | 0.9 | 24 | 4 | US-09-283-011-20 | Sequence 20, Appl |
| c 703 | 14.6 | 0.9 | 31 | 4 | US-08-501-379-7 | Sequence 7, Appl1 | c 776 | 14.4 | 0.9 | 24 | 4 | US-09-664-800-11 | Sequence 11, Appl |
| c 704 | 14.6 | 0.9 | 31 | 4 | US-08-901-379-8 | Sequence 8, Appl1 | c 777 | 14.4 | 0.9 | 24 | 4 | US-09-665-309-11 | Sequence 11, Appl |
| c 705 | 14.6 | 0.9 | 31 | 4 | US-09-230-199-17 | Sequence 17, Appl | c 778 | 14.4 | 0.9 | 24 | 4 | US-09-661-565-11 | Sequence 11, Appl |
| c 706 | 14.6 | 0.9 | 31 | 4 | US-08-679-645-357 | Sequence 357, App | c 779 | 14.4 | 0.9 | 24 | 4 | US-09-153-310-26 | Sequence 26, Appl |
| c 707 | 14.6 | 0.9 | 31 | 6 | 5200340-15 | Patent No. 5200340 | c 780 | 14.4 | 0.9 | 24 | 4 | US-09-266-462-7 | Sequence 7, Appl1 |
| c 708 | 14.6 | 0.9 | 32 | 1 | US-07-976-103A-52 | Sequence 52, Appl | c 781 | 14.4 | 0.9 | 24 | 4 | US-09-054-918A-2 | Sequence 2, Appl1 |
| c 709 | 14.6 | 0.9 | 32 | 1 | US-08-610-731A-4 | Sequence 4, Appl1 | c 782 | 14.4 | 0.9 | 24 | 4 | US-09-225-928-943 | Sequence 943, App |
| c 710 | 14.6 | 0.9 | 32 | 1 | US-08-366-953A-19 | Sequence 19, Appl | c 783 | 14.4 | 0.9 | 25 | 1 | US-07-866-018-6 | Sequence 6, Appl1 |
| c 711 | 14.6 | 0.9 | 32 | 1 | US-08-449-045C-17 | Sequence 17, Appl | c 784 | 14.4 | 0.9 | 25 | 1 | US-08-149-199-18 | Sequence 18, Appl |
| c 712 | 14.6 | 0.9 | 32 | 1 | US-08-644-664B-39 | Sequence 39, Appl | c 785 | 14.4 | 0.9 | 25 | 1 | US-08-102-372-6 | Sequence 6, Appl1 |
| c 713 | 14.6 | 0.9 | 32 | 2 | US-08-473-481-52 | Sequence 52, Appl | c 786 | 14.4 | 0.9 | 25 | 1 | US-08-048-978-2 | Sequence 2, Appl1 |
| c 714 | 14.6 | 0.9 | 32 | 2 | US-08-435-605A-29 | Sequence 29, Appl | c 787 | 14.4 | 0.9 | 25 | 1 | US-08-447-174A-2 | Sequence 2, Appl1 |
| c 715 | 14.6 | 0.9 | 32 | 2 | US-08-761-277A-39 | Sequence 39, Appl | c 788 | 14.4 | 0.9 | 25 | 1 | US-08-561-478-6 | Sequence 6, Appl1 |
| c 716 | 14.6 | 0.9 | 32 | 2 | US-09-067-379-5 | Sequence 5, Appl1 | c 789 | 14.4 | 0.9 | 25 | 1 | US-08-474-633A-106 | Sequence 106, App |
| c 717 | 14.6 | 0.9 | 32 | 3 | US-09-067-506-5 | Sequence 5, Appl1 | c 790 | 14.4 | 0.9 | 25 | 1 | US-08-643-709A-6 | Sequence 6, Appl1 |
| c 718 | 14.6 | 0.9 | 32 | 3 | US-08-508-761B-19 | Sequence 19, Appl | c 791 | 14.4 | 0.9 | 25 | 1 | US-08-877-460-6 | Sequence 6, Appl1 |
| c 719 | 14.6 | 0.9 | 32 | 3 | US-08-953-094-60 | Sequence 60, Appl | c 792 | 14.4 | 0.9 | 25 | 2 | US-08-117-995-507 | Sequence 507, App |
| c 720 | 14.6 | 0.9 | 32 | 4 | US-09-215-098-2 | Sequence 2, Appl1 | c 793 | 14.4 | 0.9 | 25 | 2 | US-08-674-148A-7 | Sequence 7, Appl1 |
| c 721 | 14.6 | 0.9 | 32 | 4 | US-08-800-215C-4 | Sequence 4, Appl1 | c 794 | 14.4 | 0.9 | 25 | 2 | US-08-681-015-1 | Sequence 1, Appl1 |
| c 722 | 14.6 | 0.9 | 32 | 5 | PCR-US96-00889-60 | Sequence 60, Appl | c 795 | 14.4 | 0.9 | 25 | 2 | US-09-092-770-13 | Sequence 13, Appl1 |
| c 723 | 14.6 | 0.9 | 33 | 1 | US-08-138-608-36 | Sequence 36, Appl | c 796 | 14.4 | 0.9 | 25 | 2 | US-08-800-641-2 | Sequence 2, Appl1 |
| c 724 | 14.6 | 0.9 | 33 | 1 | US-08-045-264A-2 | Sequence 2, Appl1 | c 797 | 14.4 | 0.9 | 25 | 3 | US-08-923-109-2 | Sequence 2, Appl1 |
| c 725 | 14.6 | 0.9 | 33 | 2 | US-08-873-479-39 | Sequence 39, Appl | c 798 | 14.4 | 0.9 | 25 | 3 | US-08-923-109-2 | Sequence 2, Appl1 |
| c 726 | 14.6 | 0.9 | 33 | 2 | US-08-700-013B-34 | Sequence 34, Appl | c 799 | 14.4 | 0.9 | 25 | 3 | US-09-115-051-18 | Sequence 18, Appl |
| c 727 | 14.6 | 0.9 | 33 | 2 | US-08-507-032-10 | Sequence 10, Appl | c 800 | 14.4 | 0.9 | 25 | 4 | US-09-222-851-13 | Sequence 13, Appl |
| c 728 | 14.6 | 0.9 | 33 | 3 | US-08-508-761B-23 | Sequence 23, Appl | c 801 | 14.4 | 0.9 | 25 | 4 | US-09-341-678-6 | Sequence 6, Appl1 |
| c 729 | 14.6 | 0.9 | 33 | 3 | US-08-973-551-27 | Sequence 27, Appl | c 802 | 14.4 | 0.9 | 25 | 4 | US-09-261-019-18 | Sequence 18, Appl |
| c 730 | 14.6 | 0.9 | 33 | 4 | US-09-003-903-8 | Sequence 8, Appl1 | c 803 | 14.4 | 0.9 | 26 | 1 | US-07-866-018-7 | Sequence 7, Appl1 |
| c 731 | 14.6 | 0.9 | 33 | 4 | US-09-238-356-17 | Sequence 17, Appl | c 804 | 14.4 | 0.9 | 26 | 1 | US-08-102-372-7 | Sequence 7, Appl1 |
| c 732 | 14.6 | 0.9 | 33 | 4 | US-09-308-160B-22 | Sequence 22, Appl | c 805 | 14.4 | 0.9 | 26 | 1 | US-08-296-880-4 | Sequence 4, Appl1 |
| c 733 | 14.6 | 0.9 | 33 | 4 | US-09-880-427-3 | Sequence 3, Appl1 | c 806 | 14.4 | 0.9 | 26 | 1 | US-08-461-823-11 | Sequence 11, Appl |
| c 734 | 14.6 | 0.9 | 34 | 1 | US-07-915-922-8 | Sequence 8, Appl1 | c 807 | 14.4 | 0.9 | 26 | 1 | US-08-447-174A-4 | Sequence 4, Appl1 |
| c 735 | 14.6 | 0.9 | 34 | 1 | US-08-318-193-55 | Sequence 55, Appl | c 808 | 14.4 | 0.9 | 26 | 1 | US-08-561-478-7 | Sequence 7, Appl1 |
| c 736 | 14.6 | 0.9 | 34 | 1 | US-08-271-880A-40 | Sequence 40, Appl | c 809 | 14.4 | 0.9 | 26 | 1 | US-08-643-709A-7 | Sequence 7, Appl1 |
| c 737 | 14.6 | 0.9 | 34 | 1 | US-08-449-045C-18 | Sequence 18, Appl | c 810 | 14.4 | 0.9 | 26 | 1 | US-08-877-460-7 | Sequence 7, Appl1 |
| c 738 | 14.6 | 0.9 | 34 | 2 | US-08-642-684-14 | Sequence 14, Appl | c 811 | 14.4 | 0.9 | 26 | 2 | US-08-174-672D-94 | Sequence 94, Appl |
| c 739 | 14.6 | 0.9 | 34 | 2 | US-08-435-605A-30 | Sequence 30, Appl | c 812 | 14.4 | 0.9 | 26 | 2 | US-08-291-011-8 | Sequence 8, Appl1 |
| c 740 | 14.6 | 0.9 | 34 | 2 | US-08-910-408-40 | Sequence 40, Appl | c 813 | 14.4 | 0.9 | 26 | 2 | US-08-800-641-4 | Sequence 4, Appl1 |
| c 741 | 14.6 | 0.9 | 34 | 3 | US-08-544-381B-188 | Sequence 188, App | c 814 | 14.4 | 0.9 | 26 | 3 | US-08-781-891-125 | Sequence 125, App |
| c 742 | 14.6 | 0.9 | 34 | 3 | US-09-249-215-40 | Sequence 40, Appl | c 815 | 14.4 | 0.9 | 26 | 4 | US-09-358-972-155 | Sequence 155, App |
| c 743 | 14.6 | 0.9 | 34 | 4 | US-09-110-517-10 | Sequence 10, Appl | c 816 | 14.4 | 0.9 | 26 | 4 | US-09-406-147-41 | Sequence 41, Appl |
| c 744 | 14.6 | 0.9 | 35 | 1 | US-08-246-373-3 | Sequence 3, Appl1 | c 817 | 14.4 | 0.9 | 26 | 4 | US-09-306-595C-32 | Sequence 32, Appl |
| c 745 | 14.6 | 0.9 | 35 | 2 | US-08-748-708-4 | Sequence 4, Appl1 | c 818 | 14.4 | 0.9 | 26 | 4 | US-09-266-065-8 | Sequence 8, Appl1 |
| c 746 | 14.6 | 0.9 | 35 | 3 | US-08-902-632-14 | Sequence 14, Appl | c 819 | 14.4 | 0.9 | 27 | 1 | US-07-936-421-17 | Sequence 17, Appl |
| c 747 | 14.6 | 0.9 | 35 | 3 | US-08-803-085-6 | Sequence 6, Appl1 | c 820 | 14.4 | 0.9 | 27 | 1 | US-08-758-306-38 | Sequence 38, Appl |
| c 748 | 14.6 | 0.9 | 35 | 3 | US-08-483-316-8 | Sequence 8, Appl1 | c 821 | 14.4 | 0.9 | 27 | 1 | US-08-977-818-7 | Sequence 7, Appl1 |
| c 749 | 14.6 | 0.9 | 35 | 4 | US-09-232-478-31 | Sequence 31, Appl | c 822 | 14.4 | 0.9 | 27 | 1 | US-08-977-818-8 | Sequence 8, Appl1 |
| c 750 | 14.6 | 0.9 | 35 | 4 | US-09-025-769B-312 | Sequence 312, App | c 823 | 14.4 | 0.9 | 27 | 2 | US-08-670-274B-7 | Sequence 7, Appl1 |
| c 751 | 14.6 | 0.9 | 35 | 4 | US-09-581-617-7 | Sequence 7, Appl1 | c 824 | 14.4 | 0.9 | 27 | 2 | US-08-670-274B-8 | Sequence 8, Appl1 |
| c 752 | 14.6 | 0.9 | 35 | 5 | PCR-US95-12624-8 | Sequence 8, Appl1 | c 825 | 14.4 | 0.9 | 27 | 2 | US-08-959-381A-12 | Sequence 12, Appl |
| c 753 | 14.4 | 0.9 | 18 | 2 | US-08-943-087-4 | Sequence 4, Appl1 | c 826 | 14.4 | 0.9 | 27 | 3 | US-08-985-162-858 | Sequence 858, App |
| c 754 | 14.4 | 0.9 | 20 | 1 | US-07-959-119A-12 | Sequence 12, Appl | c 827 | 14.4 | 0.9 | 27 | 3 | US-08-985-162-858 | Sequence 1407, Ap |
| c 755 | 14.4 | 0.9 | 20 | 1 | US-08-154-364-18 | Sequence 18, Appl | c 828 | 14.4 | 0.9 | 27 | 3 | US-08-985-162-1507 | Sequence 1508, Ap |
| c 756 | 14.4 | 0.9 | 21 | 2 | US-08-639-501-56 | Sequence 56, Appl | c 829 | 14.4 | 0.9 | 27 | 3 | US-08-985-162-1507 | Sequence 1508, Ap |
| c 757 | 14.4 | 0.9 | 21 | 3 | US-09-044-946-56 | Sequence 56, Appl | c 830 | 14.4 | 0.9 | 27 | 3 | US-08-985-162-1516 | Sequence 1516, Ap |

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|-------|------|-----|----|---|--------------------|-------------------|-------|------|-----|----|---|-------------------|-------------------|
| C 831 | 14.4 | 0.9 | 27 | 4 | US-09-257-584-25 | Sequence 25, Appl | C 904 | 14.4 | 0.9 | 32 | 1 | US-08-474-556-18 | Sequence 18, Appl |
| C 832 | 14.4 | 0.9 | 27 | 4 | US-09-146-187-7 | Sequence 7, Appl | C 905 | 14.4 | 0.9 | 32 | 1 | US-08-351-899-18 | Sequence 18, Appl |
| C 833 | 14.4 | 0.9 | 27 | 4 | US-09-146-187-8 | Sequence 8, Appl | C 906 | 14.4 | 0.9 | 32 | 1 | US-08-322-780A-22 | Sequence 22, Appl |
| C 834 | 14.4 | 0.9 | 27 | 4 | US-09-209-525-27 | Sequence 27, Appl | C 907 | 14.4 | 0.9 | 32 | 1 | US-08-162-102C-3 | Sequence 3, Appl |
| C 835 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-30 | Sequence 30, Appl | C 908 | 14.4 | 0.9 | 32 | 1 | US-08-479-382-18 | Sequence 18, Appl |
| C 836 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-37 | Sequence 37, Appl | C 909 | 14.4 | 0.9 | 32 | 1 | US-08-387-874-22 | Sequence 22, Appl |
| C 837 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-740 | Sequence 740, App | C 910 | 14.4 | 0.9 | 32 | 1 | US-08-899-575-15 | Sequence 15, Appl |
| C 838 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-744 | Sequence 744, App | C 911 | 14.4 | 0.9 | 32 | 1 | US-08-470-354-18 | Sequence 18, Appl |
| C 839 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-926 | Sequence 926, App | C 912 | 14.4 | 0.9 | 32 | 1 | US-08-470-383-18 | Sequence 18, Appl |
| C 840 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-3413 | Sequence 3413, Ap | C 913 | 14.4 | 0.9 | 32 | 1 | US-08-899-575-15 | Sequence 15, Appl |
| C 841 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-3585 | Sequence 3585, Ap | C 914 | 14.4 | 0.9 | 32 | 1 | US-08-482-577B-17 | Sequence 17, Appl |
| C 842 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-4677 | Sequence 4677, Ap | C 915 | 14.4 | 0.9 | 32 | 2 | US-08-473-481-53 | Sequence 53, Appl |
| C 843 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-4869 | Sequence 4869, Ap | C 916 | 14.4 | 0.9 | 32 | 2 | US-08-479-041-18 | Sequence 18, Appl |
| C 844 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-4944 | Sequence 4944, Ap | C 917 | 14.4 | 0.9 | 32 | 2 | US-08-383-619-22 | Sequence 22, Appl |
| C 845 | 14.4 | 0.9 | 27 | 4 | US-08-584-040-7147 | Sequence 7147, Ap | C 918 | 14.4 | 0.9 | 32 | 3 | US-09-121-425-15 | Sequence 15, Appl |
| C 846 | 14.4 | 0.9 | 27 | 5 | PCT-US94-04026-10 | Sequence 10, Appl | C 919 | 14.4 | 0.9 | 32 | 3 | US-09-121-425-16 | Sequence 16, Appl |
| C 847 | 14.4 | 0.9 | 28 | 1 | US-08-158-233B-4 | Sequence 4, Appl | C 920 | 14.4 | 0.9 | 32 | 3 | US-08-961-083-440 | Sequence 440, App |
| C 848 | 14.4 | 0.9 | 28 | 1 | US-08-456-103-4 | Sequence 4, Appl | C 921 | 14.4 | 0.9 | 32 | 4 | US-08-907-739-22 | Sequence 22, Appl |
| C 849 | 14.4 | 0.9 | 28 | 2 | US-09-067-908-4 | Sequence 4, Appl | C 922 | 14.4 | 0.9 | 32 | 4 | US-08-907-739-22 | Sequence 22, Appl |
| C 850 | 14.4 | 0.9 | 28 | 2 | US-08-859-998-707 | Sequence 707, App | C 923 | 14.4 | 0.9 | 32 | 4 | US-09-110-517-8 | Sequence 8, Appl |
| C 851 | 14.4 | 0.9 | 28 | 2 | US-08-859-998-1186 | Sequence 1186, Ap | C 924 | 14.4 | 0.9 | 32 | 4 | US-08-819-646-18 | Sequence 18, Appl |
| C 852 | 14.4 | 0.9 | 28 | 3 | US-08-913-842-73 | Sequence 73, Appl | C 925 | 14.4 | 0.9 | 32 | 5 | PCT-US93-08364-22 | Sequence 22, Appl |
| C 853 | 14.4 | 0.9 | 28 | 4 | US-09-162-021B-17 | Sequence 17, Appl | C 926 | 14.4 | 0.9 | 32 | 5 | PCT-US93-08786-3 | Sequence 3, Appl |
| C 854 | 14.4 | 0.9 | 28 | 4 | US-09-225-928-707 | Sequence 707, App | C 927 | 14.4 | 0.9 | 32 | 5 | PCT-US95-00067-13 | Sequence 13, Appl |
| C 855 | 14.4 | 0.9 | 28 | 4 | US-09-225-928-1186 | Sequence 1186, Ap | C 928 | 14.4 | 0.9 | 32 | 5 | PCT-US95-08743-15 | Sequence 15, Appl |
| C 856 | 14.4 | 0.9 | 29 | 2 | US-08-960-022-28 | Sequence 28, Appl | C 929 | 14.4 | 0.9 | 33 | 1 | US-08-482-882-29 | Sequence 29, Appl |
| C 857 | 14.4 | 0.9 | 29 | 3 | US-08-181-664-14 | Sequence 14, Appl | C 930 | 14.4 | 0.9 | 33 | 1 | US-08-483-389-29 | Sequence 29, Appl |
| C 858 | 14.4 | 0.9 | 30 | 1 | US-08-347-792-21 | Sequence 21, Appl | C 931 | 14.4 | 0.9 | 33 | 2 | US-08-481-113D-29 | Sequence 29, Appl |
| C 859 | 14.4 | 0.9 | 30 | 1 | US-08-277-231A-10 | Sequence 10, Appl | C 932 | 14.4 | 0.9 | 33 | 2 | US-08-473-503-29 | Sequence 29, Appl |
| C 860 | 14.4 | 0.9 | 30 | 1 | US-08-331-394-62 | Sequence 62, Appl | C 933 | 14.4 | 0.9 | 33 | 2 | US-08-479-275D-38 | Sequence 38, Appl |
| C 861 | 14.4 | 0.9 | 30 | 1 | US-08-250-858-62 | Sequence 62, Appl | C 934 | 14.4 | 0.9 | 33 | 2 | US-08-483-932-29 | Sequence 29, Appl |
| C 862 | 14.4 | 0.9 | 30 | 1 | US-08-431-357-21 | Sequence 21, Appl | C 935 | 14.4 | 0.9 | 33 | 2 | US-08-488-271B-38 | Sequence 38, Appl |
| C 863 | 14.4 | 0.9 | 30 | 1 | US-08-446-915-62 | Sequence 62, Appl | C 936 | 14.4 | 0.9 | 33 | 2 | US-08-820-876-28 | Sequence 28, Appl |
| C 864 | 14.4 | 0.9 | 30 | 1 | US-08-709-733-10 | Sequence 10, Appl | C 937 | 14.4 | 0.9 | 33 | 2 | US-08-377-309-14 | Sequence 14, Appl |
| C 865 | 14.4 | 0.9 | 30 | 2 | US-08-473-750-14 | Sequence 14, Appl | C 938 | 14.4 | 0.9 | 33 | 2 | US-08-531-439B-9 | Sequence 9, Appl |
| C 866 | 14.4 | 0.9 | 30 | 2 | US-08-629-001A-36 | Sequence 36, Appl | C 939 | 14.4 | 0.9 | 33 | 2 | US-08-720-420A-29 | Sequence 29, Appl |
| C 867 | 14.4 | 0.9 | 30 | 2 | US-08-744-139-59 | Sequence 59, Appl | C 940 | 14.4 | 0.9 | 33 | 2 | US-08-934-494-7 | Sequence 7, Appl |
| C 868 | 14.4 | 0.9 | 30 | 2 | US-08-766-439-84 | Sequence 84, Appl | C 941 | 14.4 | 0.9 | 33 | 3 | US-08-714-017-29 | Sequence 29, Appl |
| C 869 | 14.4 | 0.9 | 30 | 2 | US-08-766-439-86 | Sequence 86, Appl | C 942 | 14.4 | 0.9 | 33 | 3 | US-09-143-068-7 | Sequence 7, Appl |
| C 870 | 14.4 | 0.9 | 30 | 2 | US-08-437-607A-35 | Sequence 35, Appl | C 943 | 14.4 | 0.9 | 33 | 3 | US-08-845-546-3 | Sequence 3, Appl |
| C 871 | 14.4 | 0.9 | 30 | 2 | US-08-928-615-13 | Sequence 13, Appl | C 944 | 14.4 | 0.9 | 33 | 3 | US-08-863-790-36 | Sequence 36, Appl |
| C 872 | 14.4 | 0.9 | 30 | 2 | US-08-477-326-14 | Sequence 14, Appl | C 945 | 14.4 | 0.9 | 33 | 3 | US-08-475-680-29 | Sequence 29, Appl |
| C 873 | 14.4 | 0.9 | 30 | 2 | US-08-443-639-10 | Sequence 10, Appl | C 946 | 14.4 | 0.9 | 33 | 3 | US-08-296-749-36 | Sequence 36, Appl |
| C 874 | 14.4 | 0.9 | 30 | 2 | US-08-921-382-4 | Sequence 4, Appl | C 947 | 14.4 | 0.9 | 33 | 4 | US-08-250-802-6 | Sequence 6, Appl |
| C 875 | 14.4 | 0.9 | 30 | 3 | US-08-577-483-10 | Sequence 10, Appl | C 948 | 14.4 | 0.9 | 33 | 4 | US-09-252-282-12 | Sequence 12, Appl |
| C 876 | 14.4 | 0.9 | 30 | 3 | US-08-513-974B-132 | Sequence 132, App | C 949 | 14.4 | 0.9 | 33 | 4 | US-09-461-637-102 | Sequence 102, App |
| C 877 | 14.4 | 0.9 | 30 | 4 | US-09-173-914-12 | Sequence 12, Appl | C 950 | 14.4 | 0.9 | 33 | 4 | US-09-186-723-14 | Sequence 14, Appl |
| C 878 | 14.4 | 0.9 | 30 | 4 | US-08-446-935-13 | Sequence 13, Appl | C 951 | 14.4 | 0.9 | 33 | 4 | US-08-891-292A-12 | Sequence 12, Appl |
| C 879 | 14.4 | 0.9 | 30 | 4 | US-08-642-274D-115 | Sequence 115, App | C 952 | 14.4 | 0.9 | 33 | 4 | US-09-143-707-7 | Sequence 7, Appl |
| C 880 | 14.4 | 0.9 | 30 | 4 | US-09-210-016-1 | Sequence 1, Appl | C 953 | 14.4 | 0.9 | 33 | 4 | US-09-202-089-7 | Sequence 7, Appl |
| C 881 | 14.4 | 0.9 | 30 | 4 | US-08-853-774-22 | Sequence 22, Appl | C 954 | 14.4 | 0.9 | 33 | 5 | PCT-US92-07916-6 | Sequence 6, Appl |
| C 882 | 14.4 | 0.9 | 30 | 4 | US-09-166-448-13 | Sequence 13, Appl | C 955 | 14.4 | 0.9 | 33 | 5 | PCT-US96-00996-19 | Sequence 19, Appl |
| C 883 | 14.4 | 0.9 | 30 | 4 | US-08-891-282A-15 | Sequence 15, Appl | C 956 | 14.4 | 0.9 | 34 | 1 | US-07-998-973A-6 | Sequence 6, Appl |
| C 884 | 14.4 | 0.9 | 30 | 4 | US-08-891-292A-31 | Sequence 31, Appl | C 957 | 14.4 | 0.9 | 34 | 1 | US-08-530-492-45 | Sequence 45, Appl |
| C 885 | 14.4 | 0.9 | 30 | 5 | PCT-US95-06639-62 | Sequence 62, Appl | C 958 | 14.4 | 0.9 | 34 | 1 | US-08-530-492-150 | Sequence 150, App |
| C 886 | 14.4 | 0.9 | 30 | 5 | PCT-US95-15353-21 | Sequence 21, Appl | C 959 | 14.4 | 0.9 | 34 | 1 | US-08-428-733A-22 | Sequence 22, Appl |
| C 887 | 14.4 | 0.9 | 30 | 5 | PCT-US96-07709-38 | Sequence 38, Appl | C 960 | 14.4 | 0.9 | 34 | 1 | US-08-428-733A-25 | Sequence 25, Appl |
| C 888 | 14.4 | 0.9 | 31 | 1 | US-08-390-850-57 | Sequence 57, Appl | C 961 | 14.4 | 0.9 | 34 | 1 | US-08-216-851-1 | Sequence 1, Appl |
| C 889 | 14.4 | 0.9 | 31 | 1 | US-08-390-850-267 | Sequence 267, App | C 962 | 14.4 | 0.9 | 34 | 1 | US-08-216-851-6 | Sequence 6, Appl |
| C 890 | 14.4 | 0.9 | 31 | 1 | US-08-435-634-57 | Sequence 57, Appl | C 963 | 14.4 | 0.9 | 34 | 2 | US-08-483-778-35 | Sequence 35, Appl |
| C 891 | 14.4 | 0.9 | 31 | 1 | US-08-435-634-267 | Sequence 267, App | C 964 | 14.4 | 0.9 | 34 | 2 | US-08-897-043-1 | Sequence 1, Appl |
| C 892 | 14.4 | 0.9 | 31 | 1 | US-08-591-070A-34 | Sequence 34, Appl | C 965 | 14.4 | 0.9 | 34 | 2 | US-08-897-043-6 | Sequence 6, Appl |
| C 893 | 14.4 | 0.9 | 31 | 2 | US-08-398-590A-5 | Sequence 5, Appl | C 966 | 14.4 | 0.9 | 34 | 2 | US-08-452-800-6 | Sequence 6, Appl |
| C 894 | 14.4 | 0.9 | 31 | 2 | US-08-927-855-34 | Sequence 34, Appl | C 967 | 14.4 | 0.9 | 34 | 3 | US-08-520-550A-35 | Sequence 35, Appl |
| C 895 | 14.4 | 0.9 | 31 | 2 | US-08-859-998-214 | Sequence 214, App | C 968 | 14.4 | 0.9 | 34 | 3 | US-08-996-441B-74 | Sequence 74, Appl |
| C 896 | 14.4 | 0.9 | 31 | 4 | US-09-183-412-41 | Sequence 41, Appl | C 969 | 14.4 | 0.9 | 34 | 3 | US-08-993-722A-74 | Sequence 74, Appl |
| C 897 | 14.4 | 0.9 | 31 | 4 | US-08-891-292A-13 | Sequence 13, Appl | C 970 | 14.4 | 0.9 | 34 | 3 | US-08-993-170A-74 | Sequence 74, Appl |
| C 898 | 14.4 | 0.9 | 31 | 4 | US-09-225-928-214 | Sequence 214, App | C 971 | 14.4 | 0.9 | 34 | 3 | US-08-910-632-1 | Sequence 1, Appl |
| C 899 | 14.4 | 0.9 | 31 | 5 | PCT-US93-08329-16 | Sequence 16, Appl | C 972 | 14.4 | 0.9 | 34 | 3 | US-08-993-775B-74 | Sequence 74, Appl |
| C 900 | 14.4 | 0.9 | 32 | 1 | US-07-976-103A-53 | Sequence 53, Appl | C 973 | 14.4 | 0.9 | 34 | 3 | US-08-805-631A-7 | Sequence 1, Appl |
| C 901 | 14.4 | 0.9 | 32 | 1 | US-08-276-852-15 | Sequence 15, Appl | C 974 | 14.4 | 0.9 | 34 | 3 | US-08-733-708C-45 | Sequence 45, Appl |
| C 902 | 14.4 | 0.9 | 32 | 1 | US-08-133-011-22 | Sequence 22, Appl | C 975 | 14.4 | 0.9 | 34 | 4 | US-08-906-517-45 | Sequence 45, Appl |
| C 903 | 14.4 | 0.9 | 32 | 1 | US-08-471-601-18 | Sequence 18, Appl | C 976 | 14.4 | 0.9 | 34 | 4 | US-08-906-517-150 | Sequence 150, App |

977 14.4 0.9 34 4 US-09-025-769B-306
c 978 14.4 0.9 34 4 US-08-871-488A-12
c 979 14.4 0.9 34 5 PCT-US92-11353-6
c 980 14.4 0.9 34 6 5310667-25
c 981 14.4 0.9 35 1 US-08-197-791-10
c 982 14.4 0.9 35 1 US-08-224-625-4
c 983 14.4 0.9 35 1 US-08-048-975-3
c 984 14.4 0.9 35 1 US-08-448-736-6
c 985 14.4 0.9 35 1 US-08-133-011-77
c 986 14.4 0.9 35 1 US-08-530-492-94
c 987 14.4 0.9 35 1 US-08-452-779-6
c 988 14.4 0.9 35 1 US-08-322-730A-77
c 989 14.4 0.9 35 1 US-08-445-065-6
c 990 14.4 0.9 35 1 US-08-254-404-16
c 991 14.4 0.9 35 2 US-08-686-417-5
c 992 14.4 0.9 35 2 US-08-381-691-2
c 993 14.4 0.9 35 2 US-08-327-451E-16
c 994 14.4 0.9 35 2 US-08-383-619-77
c 995 14.4 0.9 35 2 US-08-818-604-22
c 996 14.4 0.9 35 2 US-08-458-109-16
c 997 14.4 0.9 35 2 US-08-834-655-12
c 998 14.4 0.9 35 2 US-08-833-610-10
c 999 14.4 0.9 35 3 US-08-834-033A-18
c1000 14.4 0.9 35 3 US-08-881-037-106

ALIGNMENTS

Sequence 306, Appl
Sequence 12, Appl
Sequence 6, Appl
Patent No. 5310667
Sequence 10, Appl
Sequence 4, Appl
Sequence 3, Appl
Sequence 6, Appl
Sequence 94, Appl
Sequence 6, Appl
Sequence 77, Appl
Sequence 6, Appl
Sequence 16, Appl
Sequence 5, Appl
Sequence 2, Appl
Sequence 16, Appl
Sequence 77, Appl
Sequence 22, Appl
Sequence 16, Appl
Sequence 12, Appl
Sequence 10, Appl
Sequence 18, Appl
Sequence 106, Appl

RESULT 1
US-08-245-758-13
; Sequence 17, Application US/08245758
; Patent No. 5607846
; GENERAL INFORMATION:

APPLICANT: Murphy, Timothy F.
TITLE OF INVENTION: Vaccine for Moraxella catarrhalis

NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Hodgson, Russ, Andrews, Woods & Goodyear
STREET: 1800 One Mt Plaza
CITY: Buffalo

STATE: New York
COUNTRY: United States
ZIP: 14203-2391

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Kb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS/ Microsoft Windows 3.1
SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/245,758
FILING DATE: 17/05/94

ATTORNEY/AGENT INFORMATION:
NAME: Nelson, M. Bud
REGISTRATION NUMBER: 35,300
REFERENCE/DOCKET NUMBER: 11520, 0051

TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 856-4000
TELEFAX: (716) 849-0349

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single-stranded
TOPOLOGY: linear

MOLECULE TYPE: DNA
IMMEDIATE SOURCE: synthesized
ORIGINAL SOURCE:

ORGANISM: Moraxella catarrhalis
STRAIN: 25240
CELL TYPE: bacterium
US-08-245-758-13

Query Match 1.1%; Score 18.2; DB 1; Length 24;
Best Local Similarity 87.0%; Pred. No. 1.2e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1144 tcagtcctccaatatgactaac 1166
DB 2 TCAGTCCTCCAAATATGTAAC 24

RESULT 2
PCT-US95-05134-13
; Sequence 13, Application PC/TUS9505134
; GENERAL INFORMATION:

APPLICANT: Murphy, Timothy F.
TITLE OF INVENTION: Vaccine for Moraxella catarrhalis

NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Hodgson, Russ, Andrews, Woods & Goodyear
STREET: 1800 One Mt Plaza
CITY: Buffalo

STATE: New York
COUNTRY: United States
ZIP: 14203-2391

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Kb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS/ Microsoft Windows 3.1
SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05134
FILING DATE:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: U.S. Serial No. 08/245,758
FILING DATE: 17/05/94
ATTORNEY/AGENT INFORMATION:

NAME: Nelson, M. Bud
REGISTRATION NUMBER: 35,300
REFERENCE/DOCKET NUMBER: 11520, 0063

TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 856-4000
TELEFAX: (716) 849-0349

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single-stranded
TOPOLOGY: linear

MOLECULE TYPE: DNA
IMMEDIATE SOURCE: synthesized
ORIGINAL SOURCE:

ORGANISM: Moraxella catarrhalis
STRAIN: 25240
CELL TYPE: bacterium
PCT-US95-05134-13

Query Match 1.1%; Score 18.2; DB 5; Length 24;
Best Local Similarity 87.0%; Pred. No. 1.2e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1144 tcagtcctccaatatgactaac 1166
DB 2 TCAGTCCTCCAAATATGTAAC 24

RESULT 3
US-08-856-331-16

; Sequence 16, Application US/08856331
; Patent No. 6077705
; GENERAL INFORMATION:

APPLICANT: Duan, Lingxun
APPLICANT: Pomerantz, Roger J.
TITLE OF INVENTION: RIBOZYME MEDIATE GENE REPLACEMENT
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 6077705r1s
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/856,331
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,132
FILING DATE: 17-May-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Deluca, Mark
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: TJU-2207
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: mRNA
US-08-856-331-16

Query Match 1.1%; Score 18.2; DB 3; Length 26;
Best Local Similarity 56.5%; Pred. No. 1.3e+04;
Matches 13; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

OY 962 tctggaattgtcaagactta 984
Db 4 UGUGAUUUGUGCAAGACUGA 26

RESULT 4
US-08-584-040-756
Sequence 756, Application US/08584040
Patent No. 6346398
GENERAL INFORMATION:
APPLICANT: Pavco, Pamela
APPLICANT: McSwigen, James
APPLICANT: Stinchcomb, Dan T.
TITLE OF INVENTION: METHOD AND REAGENT FOR THE
TITLE OF INVENTION: TREATMENT OF DISEASES OR
TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS
TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL
NUMBER OF SEQUENCES: 8502
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.

ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/584,040
FILING DATE: January 11, 1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/005,974
FILING DATE: October 26, 1995
ATTORNEY/AGENT INFORMATION:
NAME: Walburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 218/064
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 756:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
OTHER INFORMATION: The letter "N" represents the stem II region
US-08-584-040-756

Query Match 1.1%; Score 18.2; DB 4; Length 27;
Best Local Similarity 79.2%; Pred. No. 1.3e+04;
Matches 19; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

OY 1436 agtcaaacagagatgaataa 1459
Db 1 AGUCAAAACUGAUGAAGAAAAA 24

RESULT 5
US-08-066-325-49/C
Sequence 49, Application US/08066325
Patent No. 5667967
GENERAL INFORMATION:
APPLICANT: Steinman, Lawrence
APPLICANT: Oksenberg, Jorge
APPLICANT: Bernard, Claude
TITLE OF INVENTION: T-CELL RECEPTOR VARIABLE TRANSCRIPTS AS DISEASE RELATED MAR
NUMBER OF SEQUENCES: 157
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/066,325
FILING DATE: 21-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5667967tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 690068.408C1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-066-325-49

Query Match 1.1%; Score 18; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.4e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 690 atgactgtctcttcat 707
|||||
24 ATGACTGTCTCTTCAT 7

RESULT 6
US-08-646-367-10
Sequence 10, Application US/08646367

PATENT INFORMATION:
PATENT NO. 5959085
APPLICANT: Pierre Garrone
APPLICANT: Odile Djossou
APPLICANT: Francois Fossiez
APPLICANT: Jacques Banchereau
TITLE OF INVENTION: Human Monoclonal Antibodies
TITLE OF INVENTION: Against Human Cytokines And
TITLE OF INVENTION: Methods Of Making And Using Such Antibodies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corporation
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07033
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.5.3
SOFTWARE: Microsoft Word 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,367
FILING DATE: May 16, 1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Foulke, Cynthia L.
REGISTRATION NUMBER: 32,364
REFERENCE/DOCKET NUMBER: SP0403K
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-298-2987
TELEFAX: 908-298-5388
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-646-367-10

Query Match 1.1%; Score 18; DB 2; Length 34;
Best Local Similarity 70.6%; Pred. No. 1.8e+04;
Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1390 gagagggggccgcaagactcttcaacttcaa 1423
|||||
11 11 11

Db 1 GAGAGAGCGCGCCTACACTCTCCCTGTGAA 34

RESULT 7
US-08-837-201C-139

Sequence 139, Application US/08837201C
PATENT NO. 5985358
GENERAL INFORMATION:
APPLICANT: Nicholas M. Dean; Robert A. McKay; Loren J.
APPLICANT: Miraglia; Brenda F. Baker
TITLE OF INVENTION: Antisense Oligonucleotide
TITLE OF INVENTION: Compositions and Methods for the Modulation of
TITLE OF INVENTION: Activating Protein 1
NUMBER OF SEQUENCES: 139
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Jane Massey Licata
STREET: 66 East Main Street
CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM PS/2
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: WORDPERECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/837,201C
FILING DATE: April 14, 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION/DOCKET NUMBER: 32,257
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 810-1515
TELEFAX: (609) 810-1454
INFORMATION FOR SEQ ID NO: 139:
SEQUENCE CHARACTERISTICS:
LENGTH: 29
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: NO
US-08-837-201C-139

Query Match 1.1%; Score 17.8; DB 2; Length 29;
Best Local Similarity 75.9%; Pred. No. 1.8e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 743 aaggataccggggctgcgaagacaagt 771
|||||
Db 1 ACGGGAGTCGGGGCTGCCAGAGAGAGT 29

RESULT 8
US-09-364-416-139

Sequence 139, Application US/09364416
PATENT NO. 6312900
GENERAL INFORMATION:
APPLICANT: Nicholas M. Dean; Robert A. McKay; Loren J.
APPLICANT: Miraglia; Brenda F. Baker
TITLE OF INVENTION: Antisense Oligonucleotide
TITLE OF INVENTION: Compositions and Methods for the Modulation of
TITLE OF INVENTION: Activating Protein 1
NUMBER OF SEQUENCES: 139
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Jane Massey Licata
STREET: 66 East Main Street

CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM PS/2
OPERATING SYSTEM: WINDOWS 95
SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/364,416
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/837,201
FILING DATE: April 14, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: ISPH-0209
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 810-1515
TELEFAX: (609) 810-1454
INFORMATION FOR SEQ ID NO: 139:
SEQUENCE CHARACTERISTICS:
LENGTH: 29
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: NO
US-09-364-416-139

Query Match 1.1%; Score 17.8; DB 4; Length 29;
Best Local Similarity 75.9%; Pred. No. 1.8e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 743 acggataccgggctgcaagaacagt 771
||||| ||||| ||||| ||||| |||||
Db 1 ACGGGAGAGTCGGGCTCGCAGAGAGAGT 29

RESULT 9
US-08-132-649-11
Sequence 11, Application US/08132649
Patent No. 5585462
GENERAL INFORMATION:
APPLICANT: Londos, Constantine
APPLICANT: Greenberg, Andrew S.
APPLICANT: Kimmel, Alan R.
APPLICANT: Egan, John J.
TITLE OF INVENTION: CLONING OF PERILIPIN PROTEINS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourile and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/132,649
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 15280-145-1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: RAT
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..32
OTHER INFORMATION: /note="Oligonucleotide probe
OTHER INFORMATION: specific for rat perilipin."
US-08-132-649-11

Query Match 1.1%; Score 17.8; DB 1; Length 32;
Best Local Similarity 75.9%; Pred. No. 1.9e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 1449 gatgaagaagagaccagagagaa 1477
||||| ||||| ||| | |||||
Db 1 GAGAGAGAGAGTCAGAGCCGAGAGAGAA 29

RESULT 10
US-08-767-579-11
Sequence 11, Application US/08767579
Patent No. 6074842
GENERAL INFORMATION:
APPLICANT: Londos, Constantine
APPLICANT: Greenberg, Andrew S.
APPLICANT: Kimmel, Alan R.
APPLICANT: Egan, John J.
TITLE OF INVENTION: CLONING OF PERILIPIN PROTEINS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourile and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/767,579
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Garrett-Wackowski, Eugenia
REGISTRATION NUMBER: 37,330
REFERENCE/DOCKET NUMBER: 15280-145-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:

Query Match 1.1%; Score 17.6; DB 3; Length 34;
Best Local Similarity 83.3%; Pred. No. 2.3e+04;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1145 cagctctccaatactactaacca 1168
||||| | | | |
DB 34 CAGCTCTCCCAATAGTACCA 11

RESULT 13

US-08-256-799-13/c

; Sequence 13, Application US/08256799

; Patent No. 6222094

; GENERAL INFORMATION:

; APPLICANT: HANSSON, Lennart

; APPLICANT: STROEMOVIK, Mats

; APPLICANT: BERGSTROM, Sven

; APPLICANT: HERNNELL, Jan

; APPLICANT: Toernell, Jan

; TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS FOR
OBTAINING THE PROTEIN AND USE THEREOF

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BROWDY AND NEIMARK

; STREET: 419 Seventh Street, N.W., Suite 300

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20004

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/256, 799

; FILING DATE: 06-DEC-1994

; CLASSIFICATION: 435

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: DK 88/92

; FILING DATE: 23-JAN-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: COOPER, Iver P.

; REGISTRATION NUMBER: 28,005

; REFERENCE/DOCKET NUMBER: HANSSON-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-628-5197

; TELEFAX: 202-737-3528

; INFORMATION FOR SEQ ID NO: 13:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 29 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; US-08-256-799-13

Query Match 1.1%; Score 17.4; DB 4; Length 29;
Best Local Similarity 77.8%; Pred. No. 2.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1444 cagagatgaaagaagaccag 1470
||||| | | | |
DB 27 CAGAGGTCAAAACAGAAACACG 1

RESULT 14
US-08-462-437-13/c
; Sequence 13, Application US/08462437
; Patent No. 6232094
; GENERAL INFORMATION:

APPLICANT: HANSSON, Lennart
APPLICANT: STROEMOVIK, Mats
APPLICANT: BERGSTROM, Sven
APPLICANT: HERNNELL, Jan
APPLICANT: Toernell, Jan
TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS
FOR OBTAINING THE PROTEIN AND USE THEREOF
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/462,437

FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DK 88/92

FILING DATE: 23-JAN-1992

ATTORNEY/AGENT INFORMATION:

NAME: COOPER, Iver P.

REGISTRATION NUMBER: 28,005

REFERENCE/DOCKET NUMBER: HANSSON-1A

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-628-5197

TELEFAX: 202-737-3528

TELEX: 248633

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 29 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-462-437-13

Query Match 1.1%; Score 17.4; DB 4; Length 29;
Best Local Similarity 77.8%; Pred. No. 2.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1444 cagagatgaaagaagaccag 1470
||||| | | | |
DB 27 CAGAGGTCAAAACAGAAACACG 1

RESULT 15

US-07-977-284A-210/c

; Sequence 210, Application US/0797284A

; Patent No. 5558988

; GENERAL INFORMATION:

; APPLICANT: Prockop, Darwin J.

; APPLICANT: Ala-Korkko, Leena

; APPLICANT: Williams, Charlene J.

; APPLICANT: Rytvanemi, Pertti

; APPLICANT: Baldwin, Clinton

; APPLICANT: Hopkinson, Ian

; APPLICANT: Ahmad, Nilofar Nina

; TITLE OF INVENTION: METHODS OF DETECTING A GENETIC

; TITLE OF INVENTION: PREDISPOSITION FOR OSTEOARTHRITIS

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & NO. 5558988-15

; STREET: One Liberty Place, 46th floor

; CITY: Philadelphia

; STATE: PA

COUNTRY: USA
 ZIP: 19103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/977,284A
 FILING DATE: 13-NOV-1992
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Deluca, Mark
 REGISTRATION NUMBER: 33,229
 REFERENCE/DOCKET NUMBER: TDU-0697
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 568-3100
 TELEFAX: (215) 568-3439
 INFORMATION FOR SEQ ID NO: 210:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30
 TYPE: NUCLEIC ACID
 STRANDEDNESS: SINGLE
 TOPOLOGY: LINEAR
 ANTI-SENSE: NO
 US-07-977-284A-210

Query Match 1.1%, Score 17.4, DB 1, Length 30;
 Best Local Similarity 77.8%, Pred. No. 2.5e+04;
 Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 Oy 1182 tacctggagagatcaacagcgactg 1208
 Db 29 tgccTgGAGAGACTTAAcAGGgACTG 3

Search completed: July 19, 2002, 00:24:01
 Job time: 7837 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 18, 2002, 22:01:44 ; Search time 1762.76 Seconds
(without alignments)
12334.972 Million cell updates/sec

Title: US-09-817-538-2
Perfect score: 1611
Sequence: 1 atgtctgggtctctgcccgc.....tccctcacgttcttccccc 1611

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues
Total number of hits satisfying chosen parameters: 40432

Minimum DB seq length: 13
Maximum DB seq length: 35

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

EST:*
1: em_estdb:*
2: em_esthum:*
3: em_estin:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hlc:*
9: gb_estl:*
10: gb_estc2:*
11: gb_hlc:*
12: gb_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length DB | ID | Description |
|------------|-------|-------------|-----------|----|-------------|
| 1 | 28 | 1.7 | 28 | 10 | H22321 |
| 2 | 25 | 1.6 | 25 | 9 | AA469268 |
| 3 | 24 | 1.5 | 32 | 12 | A2799831 |
| 4 | 24 | 1.3 | 31 | 9 | AI021154 |
| 5 | 21 | 1.3 | 31 | 9 | AA245520 |
| 6 | 19.8 | 1.2 | 35 | 10 | T60615 |
| 7 | 19.6 | 1.2 | 35 | 10 | BI464490 |
| 8 | 19.4 | 1.2 | 22 | 9 | AA921198 |
| 9 | 19.4 | 1.2 | 31 | 9 | AA619417 |
| 10 | 18 | 1.1 | 29 | 12 | A2412411 |
| 11 | 18 | 1.1 | 31 | 10 | BG494208 |
| 12 | 18 | 1.1 | 32 | 12 | A2840310 |
| 13 | 17.8 | 1.1 | 30 | 9 | AV852654 |
| 14 | 17.6 | 1.1 | 34 | 12 | AZ380286 |
| 15 | 17.6 | 1.1 | 34 | 12 | AZ387852 |
| 16 | 17.4 | 1.1 | 31 | 9 | AI156750 |
| 17 | 17.4 | 1.1 | 34 | 12 | AZ483368 |

| | | | | | | |
|------|------|-----|----|----|-----------|---------------------|
| C 18 | 17.2 | 1.1 | 30 | 12 | A2593633 | A2593633 IM0405H16 |
| C 19 | 17.2 | 1.1 | 30 | 12 | A2827644 | A2827644 2M0104N08 |
| C 20 | 17.2 | 1.1 | 32 | 12 | AZ779234 | AZ779234 2M0015F21 |
| C 21 | 17.2 | 1.1 | 33 | 10 | BJ081548 | BJ081548 BJ081548 |
| C 22 | 17.2 | 1.1 | 34 | 9 | AA909733 | AA909733 om47h06.s |
| C 23 | 17 | 1.1 | 34 | 9 | AV858415 | AV858415 AV858415 |
| C 24 | 16.8 | 1.0 | 31 | 9 | AI691049 | AI691049 tq13h10.x |
| C 25 | 16.8 | 1.0 | 32 | 12 | AZ797319 | AZ797319 2M0033C06 |
| C 26 | 16.8 | 1.0 | 34 | 10 | AZ811393 | AZ811393 2M0077E06 |
| C 27 | 16.8 | 1.0 | 32 | 10 | W69493 | W69493 zdt47g08.s1 |
| C 28 | 16.6 | 1.0 | 31 | 9 | AI022023 | AI022023 ow72a02.x |
| C 29 | 16.6 | 1.0 | 31 | 10 | BE738256 | BE738256 601572508 |
| C 30 | 16.6 | 1.0 | 32 | 10 | BI081179 | BI081179 602879191 |
| C 31 | 16.6 | 1.0 | 35 | 12 | TA36H10 | TA36H10 T. brucei |
| C 32 | 16.6 | 1.0 | 35 | 12 | TA36D07P | TA36D07P T. brucei |
| C 33 | 16.6 | 1.0 | 34 | 9 | AI031580 | AI031580 ow6f02.x |
| C 34 | 16.2 | 1.0 | 29 | 12 | AZ443040 | AZ443040 IM0237H05 |
| C 35 | 16.2 | 1.0 | 30 | 12 | TA338807Q | TA338807Q T. brucei |
| C 36 | 16.2 | 1.0 | 31 | 9 | AI811121 | AI811121 tr06b01.x |
| C 37 | 16.2 | 1.0 | 33 | 12 | TA85B04Q | TA85B04Q T. brucei |
| C 38 | 16.2 | 1.0 | 35 | 12 | AZ854098 | AZ854098 2M0157M08 |
| C 39 | 16.2 | 1.0 | 29 | 12 | AZ623171 | AZ623171 IM0460003 |
| C 40 | 16 | 1.0 | 32 | 12 | AZ465024 | AZ465024 IM0274M12 |
| C 41 | 16 | 1.0 | 34 | 9 | AI572666 | AI572666 tq68d04.x |
| C 42 | 16 | 1.0 | 34 | 12 | AZ778289 | AZ778289 2M0013H13 |
| C 43 | 16 | 1.0 | 35 | 12 | AZ860079 | AZ860079 2M0165J19 |
| C 44 | 15.8 | 1.0 | 30 | 10 | BM36162 | BM36162 5009-0-18 |
| C 45 | 15.8 | 1.0 | 31 | 9 | AA999814 | AA999814 os42b02.s |
| C 46 | 15.8 | 1.0 | 32 | 12 | AZ820542 | AZ820542 2M0092109 |
| C 47 | 15.8 | 1.0 | 32 | 12 | TA30A05Q | TA30A05Q T. brucei |
| C 48 | 15.8 | 1.0 | 33 | 10 | R01622 | R01622 ye79c10.s1 |
| C 49 | 15.8 | 1.0 | 33 | 12 | AZ820189 | AZ820189 2M0092C15 |
| C 50 | 15.8 | 1.0 | 34 | 9 | AI794858 | AI794858 sb72e03.y |
| C 51 | 15.8 | 1.0 | 34 | 12 | TA124F07P | TA124F07P T. brucei |
| C 52 | 15.8 | 1.0 | 35 | 9 | AL667873 | AL667873 AL667873 |
| C 53 | 15.8 | 1.0 | 35 | 10 | BI907351 | BI907351 603065910 |
| C 54 | 15.8 | 1.0 | 35 | 12 | AZ810099 | AZ810099 2M0074N22 |
| C 55 | 15.6 | 1.0 | 30 | 10 | H41620 | H41620 y009b09.r1 |
| C 56 | 15.6 | 1.0 | 33 | 9 | AB016905 | AB016905 AB016905 |
| C 57 | 15.6 | 1.0 | 33 | 12 | TA200G10P | TA200G10P T. brucei |
| C 58 | 15.6 | 1.0 | 34 | 12 | AL668112 | AL668112 AL668112 |
| C 59 | 15.6 | 1.0 | 34 | 12 | AZ377095 | AZ377095 IM0131G14 |
| C 60 | 15.6 | 1.0 | 34 | 12 | AZ580392 | AZ580392 IM0368E08 |
| C 61 | 15.6 | 1.0 | 35 | 12 | AZ303930 | AZ303930 IM0003G19 |
| C 62 | 15.4 | 1.0 | 25 | 9 | AL585924 | AL585924 AL585924 |
| C 63 | 15.4 | 1.0 | 28 | 12 | AZ342196 | AZ342196 IM0075F07 |
| C 64 | 15.4 | 1.0 | 29 | 12 | AZ310717 | AZ310717 IM0025L13 |
| C 65 | 15.4 | 1.0 | 31 | 9 | AI534671 | AI534671 tr27a02.x |
| C 66 | 15.4 | 1.0 | 31 | 12 | AZ487549 | AZ487549 IM0317I13 |
| C 67 | 15.4 | 1.0 | 31 | 12 | AZ488743 | AZ488743 IM0319K12 |
| C 68 | 15.4 | 1.0 | 33 | 10 | BF311108 | BF311108 601898559 |
| C 69 | 15.4 | 1.0 | 33 | 12 | AZ513839 | AZ513839 IM0360B10 |
| C 70 | 15.4 | 1.0 | 33 | 12 | AZ593599 | AZ593599 IM0405A15 |
| C 71 | 15.4 | 1.0 | 33 | 12 | AZ788094 | AZ788094 2M0035A02 |
| C 72 | 15.4 | 1.0 | 34 | 9 | AA865962 | AA865962 oh52a05.s |
| C 73 | 15.4 | 1.0 | 34 | 9 | AI186043 | AI186043 qe50f03.x |
| C 74 | 15.4 | 1.0 | 34 | 9 | AI537243 | AI537243 tp01f01.x |
| C 75 | 15.4 | 1.0 | 35 | 12 | AZ417148 | AZ417148 IM0192N09 |
| C 76 | 15.2 | 0.9 | 22 | 12 | AZ603158 | AZ603158 IM0422L13 |
| C 77 | 15.2 | 0.9 | 25 | 12 | TA356G03P | TA356G03P T. brucei |
| C 78 | 15.2 | 0.9 | 28 | 12 | AZ310090 | AZ310090 IM0018P18 |
| C 79 | 15.2 | 0.9 | 28 | 12 | AZ777241 | AZ777241 2M0011G02 |
| C 80 | 15.2 | 0.9 | 30 | 12 | AZ783172 | AZ783172 2M0024F08 |
| C 81 | 15.2 | 0.9 | 31 | 12 | AZ500072 | AZ500072 IM0338A14 |
| C 82 | 15.2 | 0.9 | 32 | 10 | BM399006 | BM399006 5009-0-51 |
| C 83 | 15.2 | 0.9 | 32 | 10 | N40655 | N40655 yw78b10.r1 |
| C 84 | 15.2 | 0.9 | 32 | 12 | AZ806592 | AZ806592 2M0068E17 |
| C 85 | 15.2 | 0.9 | 32 | 12 | AZ820810 | AZ820810 2M0093H14 |
| C 86 | 15.2 | 0.9 | 33 | 12 | AZ802336 | AZ802336 2M0051L09 |
| C 87 | 15.2 | 0.9 | 34 | 9 | AI282704 | AI282704 qf65a02.x |
| C 88 | 15.2 | 0.9 | 34 | 10 | BI553461 | BI553461 603193Z22 |
| C 89 | 15.2 | 0.9 | 34 | 12 | AZ829250 | AZ829250 2M0106K17 |
| C 90 | 15.2 | 0.9 | 35 | 12 | AZ308581 | AZ308581 IM0011O11 |

| | | | | | | | | | | | | | |
|-----|------|-----|----|----|-----------|---------------------|-----|------|-----|----|----|-----------|---------------------|
| 91 | 15.2 | 0.9 | 35 | 12 | TA241D07Q | AI482678 T. brucei | 164 | 14.6 | 0.9 | 32 | 10 | BE737964 | BE737964 601572535 |
| 92 | 15 | 0.9 | 25 | 12 | A2635993 | A2635993 1M0493E20 | 165 | 14.6 | 0.9 | 32 | 12 | A2408275 | A2408275 1M0179G20 |
| 93 | 15 | 0.9 | 26 | 12 | A2613595 | A2613595 1M0442G06 | 166 | 14.6 | 0.9 | 32 | 12 | A2588425 | A2588425 1M0596B13 |
| 94 | 15 | 0.9 | 27 | 12 | A2367484 | A2367484 1M0117H11 | 167 | 14.6 | 0.9 | 32 | 12 | TA318G1P | AL492672 T. brucei |
| 95 | 15 | 0.9 | 28 | 9 | AI573029 | AI573029 tns602.x | 168 | 14.6 | 0.9 | 32 | 12 | TA337F07Q | AI491668 T. brucei |
| 96 | 15 | 0.9 | 30 | 10 | H41630 | H41630 y609P09.r1 | 169 | 14.6 | 0.9 | 33 | 10 | T61439 | T61439 y606C03.s1 |
| 97 | 15 | 0.9 | 30 | 12 | A2995340 | A2995340 2M0281E11 | 170 | 14.6 | 0.9 | 33 | 10 | BE738274 | BE738274 601572535 |
| 98 | 15 | 0.9 | 31 | 9 | AI254617 | AI254617 qv54902.x | 171 | 14.6 | 0.9 | 33 | 12 | A2643708 | A2643708 1M0507N13 |
| 99 | 15 | 0.9 | 32 | 10 | BM400712 | BM400712 5009-0-77 | 172 | 14.6 | 0.9 | 33 | 12 | A2804079 | A2804079 2M0064I14 |
| 100 | 15 | 0.9 | 32 | 10 | C02596 | C02596 H0MGS001250 | 173 | 14.6 | 0.9 | 34 | 9 | AA069615 | AA069615 zms2d05.s |
| 101 | 15 | 0.9 | 32 | 12 | A2326452 | A2326452 1M0049H19 | 174 | 14.6 | 0.9 | 34 | 12 | A2382460 | A2382460 1M0139L11 |
| 102 | 15 | 0.9 | 32 | 12 | A2628457 | A2628457 2M0048M03 | 175 | 14.6 | 0.9 | 34 | 12 | A2483287 | A2483287 1M0307J02 |
| 103 | 15 | 0.9 | 32 | 12 | A2792853 | A2792853 2M0048C07 | 176 | 14.6 | 0.9 | 34 | 12 | A2483287 | A2483287 1M0307J02 |
| 104 | 15 | 0.9 | 33 | 12 | N40522 | N40522 yw75h12.r1 | 177 | 14.6 | 0.9 | 34 | 12 | BE609724 | BE609724 HTY14C02 |
| 105 | 15 | 0.9 | 33 | 12 | A2783357 | A2783357 2M0025B05 | 178 | 14.6 | 0.9 | 34 | 12 | BE609724 | BE609724 HTY14C02 |
| 106 | 15 | 0.9 | 34 | 9 | AA594145 | AA594145 ou38e01.s | 179 | 14.6 | 0.9 | 35 | 10 | BI328247 | BI328247 602985529 |
| 107 | 15 | 0.9 | 34 | 9 | AI457111 | AI457111 t172a12.x | 180 | 14.6 | 0.9 | 35 | 10 | BI388654 | BI388654 EST-CD34N |
| 108 | 15 | 0.9 | 34 | 9 | AI657872 | AI657872 fc14f02.y | 181 | 14.6 | 0.9 | 35 | 10 | BI693679 | BI693679 603342387 |
| 109 | 15 | 0.9 | 34 | 9 | AI978579 | AI978579 wq72d03.x | 182 | 14.6 | 0.9 | 35 | 12 | A2493406 | A2493406 1M0328L06 |
| 110 | 15 | 0.9 | 34 | 12 | A2602397 | A2602397 1M0421E12 | 183 | 14.6 | 0.9 | 35 | 12 | A2827495 | A2827495 2M0103N19 |
| 111 | 15 | 0.9 | 35 | 9 | AL644598 | AL644598 AL644598 | 184 | 14.4 | 0.9 | 21 | 12 | A2336281 | A2336281 1M0066B02 |
| 112 | 15 | 0.9 | 35 | 10 | BI333189 | BI333189 602996505 | 185 | 14.4 | 0.9 | 24 | 12 | A2663178 | A2663178 1M0542K07 |
| 113 | 15 | 0.9 | 35 | 10 | BM397423 | BM397423 5009-0-32 | 186 | 14.4 | 0.9 | 25 | 9 | AA927233 | AA927233 oml7c03.s |
| 114 | 15 | 0.9 | 35 | 12 | A2421500 | A2421500 1M0199I13 | 187 | 14.4 | 0.9 | 26 | 12 | A2309743 | A2309743 1M0016N05 |
| 115 | 15 | 0.9 | 35 | 12 | A2825655 | A2825655 2M0100P23 | 188 | 14.4 | 0.9 | 26 | 12 | A2317335 | A2317335 1M0036K09 |
| 116 | 14.8 | 0.9 | 26 | 12 | A2430627 | A2430627 1M0215M08 | 189 | 14.4 | 0.9 | 28 | 9 | AI1748673 | AI1748673 sb60d07.y |
| 117 | 14.8 | 0.9 | 26 | 12 | A2466526 | A2466526 1M0277K15 | 190 | 14.4 | 0.9 | 28 | 12 | A2458545 | A2458545 1M0262B15 |
| 118 | 14.8 | 0.9 | 26 | 12 | A2942099 | A2942099 2M0202C09 | 191 | 14.4 | 0.9 | 29 | 12 | A2441837 | A2441837 1M0234C07 |
| 119 | 14.8 | 0.9 | 27 | 12 | A2418585 | A2418585 1M0194A18 | 192 | 14.4 | 0.9 | 29 | 12 | A2476026 | A2476026 1M0294D05 |
| 120 | 14.8 | 0.9 | 27 | 12 | A2835139 | A2835139 2M0129P09 | 193 | 14.4 | 0.9 | 29 | 12 | A2953233 | A2953233 2M0218E21 |
| 121 | 14.8 | 0.9 | 27 | 12 | A2868893 | A2868893 2M0180T17 | 194 | 14.4 | 0.9 | 29 | 12 | BH023787 | BH023787 BC02425-5 |
| 122 | 14.8 | 0.9 | 28 | 9 | AI597957 | AI597957 ts04f01.x | 195 | 14.4 | 0.9 | 31 | 9 | AA779667 | AA779667 at46a11.s |
| 123 | 14.8 | 0.9 | 28 | 12 | A2480878 | A2480878 1M0302I22 | 196 | 14.4 | 0.9 | 31 | 9 | AI1174157 | AI1174157 vz84e01.r |
| 124 | 14.8 | 0.9 | 28 | 12 | A2591865 | A2591865 1M0402G16 | 197 | 14.4 | 0.9 | 31 | 9 | AI382798 | AI382798 tc08f05.x |
| 125 | 14.8 | 0.9 | 29 | 12 | A2633756 | A2633756 1M0489J11 | 198 | 14.4 | 0.9 | 31 | 9 | AI1681120 | AI1681120 sal8c02.y |
| 126 | 14.8 | 0.9 | 29 | 12 | A2793767 | A2793767 2M0047P09 | 199 | 14.4 | 0.9 | 31 | 9 | AI811328 | AI811328 tw72f06.x |
| 127 | 14.8 | 0.9 | 29 | 12 | TA330A07P | TA330A07P T. brucei | 200 | 14.4 | 0.9 | 31 | 12 | A2991929 | A2991929 2M0276F21 |
| 128 | 14.8 | 0.9 | 30 | 12 | TA114A09Q | TA114A09Q T. brucei | 201 | 14.4 | 0.9 | 31 | 12 | A2997927 | A2997927 2M0284F11 |
| 129 | 14.8 | 0.9 | 31 | 9 | AA903721 | AA903721 ok60C05.s | 202 | 14.4 | 0.9 | 32 | 10 | BM395935 | BM395935 5009-0-14 |
| 130 | 14.8 | 0.9 | 31 | 9 | AI207866 | AI207866 an06C06.x | 203 | 14.4 | 0.9 | 32 | 12 | A2798704 | A2798704 2M0055H11 |
| 131 | 14.8 | 0.9 | 31 | 9 | AI608826 | AI608826 tw21h08.x | 204 | 14.4 | 0.9 | 32 | 12 | A2813220 | A2813220 2M0080F23 |
| 132 | 14.8 | 0.9 | 31 | 9 | AI633409 | AI633409 to46d10.x | 205 | 14.4 | 0.9 | 32 | 12 | A2815330 | A2815330 2M0083D05 |
| 133 | 14.8 | 0.9 | 31 | 10 | T64723 | T64723 yc25d12.r1 | 206 | 14.4 | 0.9 | 32 | 12 | A2848392 | A2848392 2M0149B24 |
| 134 | 14.8 | 0.9 | 31 | 12 | A2361381 | A2361381 1M0106K03 | 207 | 14.4 | 0.9 | 32 | 12 | TA254H07P | TA254H07P T. brucei |
| 135 | 14.8 | 0.9 | 31 | 12 | A2845348 | A2845348 2M0145C07 | 208 | 14.4 | 0.9 | 33 | 12 | A2352257 | A2352257 1M0090G11 |
| 136 | 14.8 | 0.9 | 32 | 10 | BI259338 | BI259338 602972590 | 209 | 14.4 | 0.9 | 33 | 12 | A2429931 | A2429931 1M0214H08 |
| 137 | 14.8 | 0.9 | 32 | 10 | C01247 | C01247 H0MGS000797 | 210 | 14.4 | 0.9 | 33 | 12 | A2606035 | A2606035 1M0427P12 |
| 138 | 14.8 | 0.9 | 32 | 12 | A2329877 | A2329877 1M0054L07 | 211 | 14.4 | 0.9 | 33 | 12 | A2766010 | A2766010 1M0563H13 |
| 139 | 14.8 | 0.9 | 32 | 12 | A2515185 | A2515185 1M0054L07 | 212 | 14.4 | 0.9 | 33 | 12 | A2797199 | A2797199 2M0053K13 |
| 140 | 14.8 | 0.9 | 32 | 12 | A2800172 | A2800172 2M0058U02 | 213 | 14.4 | 0.9 | 33 | 12 | A2817331 | A2817331 2M0086D24 |
| 141 | 14.8 | 0.9 | 32 | 12 | TA206G01P | TA206G01P T. brucei | 214 | 14.4 | 0.9 | 33 | 12 | A2869302 | A2869302 2M0181C20 |
| 142 | 14.8 | 0.9 | 33 | 10 | R38731 | R38731 y603G06.s1 | 215 | 14.4 | 0.9 | 33 | 12 | A2876021 | A2876021 2M0190C23 |
| 143 | 14.8 | 0.9 | 33 | 10 | R94841 | R94841 yE71a11.s1 | 216 | 14.4 | 0.9 | 33 | 12 | A2946219 | A2946219 2M0207K24 |
| 144 | 14.8 | 0.9 | 33 | 12 | A2435186 | A2435186 1M0222E03 | 217 | 14.4 | 0.9 | 33 | 12 | A2964180 | A2964180 2M0233P17 |
| 145 | 14.8 | 0.9 | 34 | 9 | AA988194 | AA988194 or98f12.s | 218 | 14.4 | 0.9 | 34 | 2 | HS0002700 | HS0002700 Homo sapi |
| 146 | 14.8 | 0.9 | 34 | 9 | AI036048 | AI036048 vz68e07.r | 219 | 14.4 | 0.9 | 34 | 9 | AA890011 | AA890011 aJ89h12.s |
| 147 | 14.8 | 0.9 | 34 | 10 | BI760282 | BI760282 603045345 | 220 | 14.4 | 0.9 | 34 | 9 | AI192104 | AI192104 qa06d06.x |
| 148 | 14.8 | 0.9 | 34 | 10 | W69493 | W69493 z647G08.s1 | 221 | 14.4 | 0.9 | 34 | 9 | AI611445 | AI611445 t61c02.x |
| 149 | 14.8 | 0.9 | 34 | 12 | A2427742 | A2427742 1M0209K20 | 222 | 14.4 | 0.9 | 34 | 9 | AU011732 | AU011732 AU011732 |
| 150 | 14.8 | 0.9 | 34 | 12 | A2590006 | A2590006 1M0399B23 | 223 | 14.4 | 0.9 | 34 | 9 | AU011734 | AU011734 AU011734 |
| 151 | 14.8 | 0.9 | 34 | 12 | A2617698 | A2617698 1M0449A08 | 224 | 14.4 | 0.9 | 34 | 10 | BE001219 | BE001219 BE001219 |
| 152 | 14.8 | 0.9 | 34 | 12 | A2648635 | A2648635 1M0517E14 | 225 | 14.4 | 0.9 | 34 | 12 | A24025283 | A24025283 EP(3)105 |
| 153 | 14.8 | 0.9 | 35 | 10 | BU035737 | BU035737 BJ035737 | 226 | 14.4 | 0.9 | 34 | 12 | A24842003 | A24842003 1M0306D16 |
| 154 | 14.8 | 0.9 | 35 | 10 | BE545364 | BE545364 601078624 | 227 | 14.4 | 0.9 | 34 | 12 | A2619022 | A2619022 1M0451I08 |
| 155 | 14.6 | 0.9 | 22 | 9 | AI344786 | AI344786 tb10b09.x | 228 | 14.4 | 0.9 | 34 | 12 | A2787308 | A2787308 2M0033B21 |
| 156 | 14.6 | 0.9 | 25 | 9 | AI745099 | AI745099 tr21a09.x | 229 | 14.4 | 0.9 | 34 | 12 | A2966687 | A2966687 2M0237L17 |
| 157 | 14.6 | 0.9 | 25 | 10 | N32966 | N32966 yy10h07.s1 | 230 | 14.4 | 0.9 | 35 | 9 | AL641482 | AL641482 AL641482 |
| 158 | 14.6 | 0.9 | 25 | 12 | A2382610 | A2382610 1M0139P21 | 231 | 14.4 | 0.9 | 35 | 12 | A2452716 | A2452716 1M0252A14 |
| 159 | 14.6 | 0.9 | 29 | 12 | A2819924 | A2819924 2M0091A19 | 232 | 14.4 | 0.9 | 35 | 12 | A2507118 | A2507118 1M0348A07 |
| 160 | 14.6 | 0.9 | 31 | 9 | AA953769 | AA953769 on89e03.s | 233 | 14.4 | 0.9 | 35 | 12 | BH213725 | BH213725 SALK 0096 |
| 161 | 14.6 | 0.9 | 31 | 12 | A2440093 | A2440093 1M0231E03 | 234 | 14.4 | 0.9 | 35 | 12 | TA38604P | TA38604P T. brucei |
| 162 | 14.6 | 0.9 | 31 | 12 | A2594685 | A2594685 1M0413E10 | 235 | 14.2 | 0.9 | 22 | 9 | AA908583 | AA908583 og84d03.s |
| 163 | 14.6 | 0.9 | 32 | 10 | RI5883 | RI5883 ya47b01.s2 | 236 | 14.2 | 0.9 | 25 | 12 | A2391004 | A2391004 1M0152J17 |

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|-----|------|-----|----|----|-----------|---------------------|-----|------|-----|----|----|-----------|-----------|------------|--|
| 237 | 14.2 | 0.9 | 25 | 12 | TA28C08P | AL454159 T. brucei | 310 | 14 | 0.9 | 31 | 12 | AZ508516 | AZ508516 | 1M0350N24 | |
| 238 | 14.2 | 0.9 | 26 | 12 | AZ386258 | AZ386258 1M0145E08 | 311 | 14 | 0.9 | 31 | 12 | AZ641732 | AZ641732 | 1M0504L23 | |
| 239 | 14.2 | 0.9 | 27 | 12 | AZ591683 | AZ591683 1M0401J23 | 312 | 14 | 0.9 | 31 | 12 | AZ869598 | AZ869598 | 2M0181H14 | |
| 240 | 14.2 | 0.9 | 27 | 12 | AZ771605 | AZ771605 1M0573B14 | 313 | 14 | 0.9 | 31 | 12 | BH000290 | BH000290 | 2M0288I02 | |
| 241 | 14.2 | 0.9 | 27 | 12 | AZ953355 | AZ953355 2M0218M01 | 314 | 14 | 0.9 | 32 | 10 | BG033268 | BG033268 | 602298518 | |
| 242 | 14.2 | 0.9 | 28 | 12 | TA30F12Q | TA30F12Q T. brucei | 315 | 14 | 0.9 | 32 | 10 | R50458 | R50458 | yj56e11.s1 | |
| 243 | 14.2 | 0.9 | 29 | 12 | AZ345675 | AZ345675 1M0080A05 | 316 | 14 | 0.9 | 32 | 12 | AZ325144 | AZ325144 | 1M0047J22 | |
| 244 | 14.2 | 0.9 | 29 | 12 | AZ356943 | AZ356943 1M0098D16 | 317 | 14 | 0.9 | 32 | 12 | AZ345558 | AZ345558 | 1M0080G16 | |
| 245 | 14.2 | 0.9 | 29 | 12 | AZ391891 | AZ391891 1M0154F14 | 318 | 14 | 0.9 | 32 | 12 | AZ478382 | AZ478382 | 1M0298J70 | |
| 246 | 14.2 | 0.9 | 29 | 12 | AZ402630 | AZ402630 1M0170E06 | 319 | 14 | 0.9 | 32 | 12 | AZ504285 | AZ504285 | 1M0344F22 | |
| 247 | 14.2 | 0.9 | 29 | 12 | AZ514597 | AZ514597 1M0361E14 | 320 | 14 | 0.9 | 32 | 12 | AZ592340 | AZ592340 | 1M0403L12 | |
| 248 | 14.2 | 0.9 | 29 | 12 | AZ833405 | AZ833405 2M0115P19 | 321 | 14 | 0.9 | 32 | 12 | AZ622735 | AZ622735 | 1M0459D16 | |
| 249 | 14.2 | 0.9 | 29 | 12 | AZ854411 | AZ854411 2M0158B05 | 322 | 14 | 0.9 | 32 | 12 | TA106H12Q | TA106H12Q | T. brucei | |
| 250 | 14.2 | 0.9 | 30 | 10 | BE367782 | BE367782 601217403 | 323 | 14 | 0.9 | 33 | 12 | D19141 | D19141 | MUGS01360 | |
| 251 | 14.2 | 0.9 | 30 | 10 | BF099623 | BF099623 601751644 | 324 | 14 | 0.9 | 33 | 12 | AZ444782 | AZ444782 | 1M0240H10 | |
| 252 | 14.2 | 0.9 | 30 | 12 | AZ344650 | AZ344650 1M0078B22 | 325 | 14 | 0.9 | 33 | 12 | AZ458451 | AZ458451 | 1M0262L01 | |
| 253 | 14.2 | 0.9 | 30 | 12 | AZ345807 | AZ345807 1M0080J11 | 326 | 14 | 0.9 | 33 | 12 | AZ759124 | AZ759124 | 1M0551N24 | |
| 254 | 14.2 | 0.9 | 30 | 12 | AZ514446 | AZ514446 1M0361M13 | 327 | 14 | 0.9 | 33 | 12 | AZ776950 | AZ776950 | 2M0011H04 | |
| 255 | 14.2 | 0.9 | 31 | 9 | AA915907 | AA915907 oxh6c12.s | 328 | 14 | 0.9 | 34 | 9 | AA961390 | AA961390 | ox35c09.s | |
| 256 | 14.2 | 0.9 | 31 | 9 | AI032907 | AI032907 ox19e09.s | 329 | 14 | 0.9 | 34 | 9 | AV832632 | AV832632 | AV832632 | |
| 257 | 14.2 | 0.9 | 31 | 10 | AI452586 | AI452586 t122d04.x | 330 | 14 | 0.9 | 34 | 9 | AV842530 | AV842530 | AV842530 | |
| 258 | 14.2 | 0.9 | 31 | 10 | BI259862 | BI259862 602971524 | 331 | 14 | 0.9 | 34 | 10 | BI259862 | BI259862 | 602968347 | |
| 259 | 14.2 | 0.9 | 31 | 10 | BE369035 | BE369035 601221693 | 332 | 14 | 0.9 | 34 | 10 | BI770990 | BI770990 | 603055327 | |
| 260 | 14.2 | 0.9 | 32 | 10 | D20697 | D20697 HUMGS01673 | 333 | 14 | 0.9 | 34 | 10 | BI832750 | BI832750 | 603082396 | |
| 261 | 14.2 | 0.9 | 32 | 12 | BF582615 | BF582615 602094596 | 334 | 14 | 0.9 | 34 | 10 | BM397004 | BM397004 | 5009--0-28 | |
| 262 | 14.2 | 0.9 | 32 | 12 | AZ509668 | AZ509668 1M0352A14 | 335 | 14 | 0.9 | 34 | 12 | AZ340626 | AZ340626 | 1M0072C09 | |
| 263 | 14.2 | 0.9 | 32 | 12 | AZ806107 | AZ806107 2M0067N24 | 336 | 14 | 0.9 | 34 | 12 | AZ404338 | AZ404338 | 1M0172D10 | |
| 264 | 14.2 | 0.9 | 33 | 10 | BF184963 | BF184963 601843455 | 337 | 14 | 0.9 | 34 | 12 | AZ587290 | AZ587290 | 1M0394A20 | |
| 265 | 14.2 | 0.9 | 33 | 12 | AZ589630 | AZ589630 1M0398C15 | 338 | 14 | 0.9 | 34 | 12 | AZ609505 | AZ609505 | 1M0434019 | |
| 266 | 14.2 | 0.9 | 33 | 12 | AZ659947 | AZ659947 1M0537A14 | 339 | 14 | 0.9 | 34 | 12 | AZ662785 | AZ662785 | 1M0542001 | |
| 267 | 14.2 | 0.9 | 34 | 9 | AA705389 | AA705389 zj90a08.s | 340 | 14 | 0.9 | 34 | 12 | AZ773599 | AZ773599 | 2M0061F07 | |
| 268 | 14.2 | 0.9 | 34 | 9 | AA869228 | AA869228 vq49c01.r | 341 | 14 | 0.9 | 34 | 12 | AZ805966 | AZ805966 | 2M0067I07 | |
| 269 | 14.2 | 0.9 | 34 | 9 | AA912855 | AA912855 o132d01.s | 342 | 14 | 0.9 | 34 | 12 | AZ828287 | AZ828287 | 2M0096E01 | |
| 270 | 14.2 | 0.9 | 34 | 9 | AI016849 | AI016849 ou27a09.x | 343 | 14 | 0.9 | 34 | 12 | AZ82808P | AZ82808P | T. brucei | |
| 271 | 14.2 | 0.9 | 34 | 9 | AI075622 | AI075622 oy25c08.s | 344 | 14 | 0.9 | 35 | 9 | AV832400 | AV832400 | AV832400 | |
| 272 | 14.2 | 0.9 | 34 | 9 | AI869502 | AI869502 w196904.x | 345 | 14 | 0.9 | 35 | 10 | BM047352 | BM047352 | 603628475 | |
| 273 | 14.2 | 0.9 | 34 | 10 | BG900004 | BG900004 HOA34-1-F | 346 | 14 | 0.9 | 35 | 10 | AZ308154 | AZ308154 | 1M0010D19 | |
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| 275 | 14.2 | 0.9 | 34 | 10 | H41735 | H41735 yn94e12.s1 | 348 | 14 | 0.9 | 35 | 12 | AZ465045 | AZ465045 | 1M0274A16 | |
| 276 | 14.2 | 0.9 | 34 | 10 | W24112 | W24112 zba8h04.r1 | 349 | 14 | 0.9 | 35 | 12 | AZ812937 | AZ812937 | 2M0080M03 | |
| 277 | 14.2 | 0.9 | 34 | 10 | BE372968 | BE372968 601224442 | 350 | 14 | 0.9 | 35 | 12 | AZ417235 | AZ417235 | 1M0192N15 | |
| 278 | 14.2 | 0.9 | 34 | 10 | BF141172 | BF141172 601789171 | 351 | 14 | 0.9 | 20 | 12 | AZ481878 | AZ481878 | 1M0318M13 | |
| 279 | 14.2 | 0.9 | 34 | 12 | AZ488226 | AZ488226 1M0318F22 | 352 | 13.8 | 0.9 | 21 | 12 | AZ969578 | AZ969578 | 2M0242G20 | |
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| 281 | 14.2 | 0.9 | 35 | 9 | AM246497 | AM246497 2821639.3 | 354 | 13.8 | 0.9 | 22 | 12 | AZ814038 | AZ814038 | 1M0073B16 | |
| 282 | 14.2 | 0.9 | 35 | 10 | R50566 | R50566 yj60a05.r1 | 355 | 13.8 | 0.9 | 24 | 12 | AZ814317 | AZ814317 | 2M00682C12 | |
| 283 | 14.2 | 0.9 | 35 | 12 | AZ469734 | AZ469734 1M0283J19 | 356 | 13.8 | 0.9 | 24 | 12 | BH000494 | BH000494 | 2M0288H21 | |
| 284 | 14.2 | 0.9 | 35 | 12 | AZ581591 | AZ581591 1M0370O23 | 357 | 13.8 | 0.9 | 25 | 12 | AZ374695 | AZ374695 | 1M0127I08 | |
| 285 | 14.2 | 0.9 | 35 | 12 | TA241A10P | TA241A10P T. brucei | 358 | 13.8 | 0.9 | 25 | 12 | AZ462642 | AZ462642 | 1M0269M09 | |
| 286 | 14.2 | 0.9 | 23 | 10 | BG926069 | BG926069 HMC23-1-E | 359 | 13.8 | 0.9 | 25 | 12 | AZ491641 | AZ491641 | 1M0325P15 | |
| 287 | 14 | 0.9 | 24 | 9 | AM248929 | AM248929 2819212.3 | 360 | 13.8 | 0.9 | 25 | 12 | AZ767331 | AZ767331 | 1M0566N15 | |
| 288 | 14 | 0.9 | 24 | 12 | AZ486303 | AZ486303 1M0314A16 | 361 | 13.8 | 0.9 | 25 | 12 | TA124C09P | TA124C09P | T. brucei | |
| 289 | 14 | 0.9 | 24 | 12 | TA39F07Q | TA39F07Q T. brucei | 362 | 13.8 | 0.9 | 26 | 12 | AZ591596 | AZ591596 | 1M0401I18 | |
| 290 | 14 | 0.9 | 25 | 9 | AI001845 | AI001845 os98b02.s | 363 | 13.8 | 0.9 | 26 | 12 | AZ580104 | AZ580104 | 1M0368O09 | |
| 291 | 14 | 0.9 | 25 | 10 | BM398297 | BM398297 5009--0-43 | 364 | 13.8 | 0.9 | 26 | 12 | AZ591596 | AZ591596 | 1M0401I18 | |
| 292 | 14 | 0.9 | 25 | 12 | AZ817944 | AZ817944 2M0087M12 | 365 | 13.8 | 0.9 | 26 | 12 | AZ620130 | AZ620130 | 1M0452A14 | |
| 293 | 14 | 0.9 | 25 | 12 | TA113D04Q | TA113D04Q T. brucei | 366 | 13.8 | 0.9 | 26 | 12 | AZ684944 | AZ684944 | 2M0174M17 | |
| 294 | 14 | 0.9 | 26 | 12 | AZ345629 | AZ345629 1M0080G23 | 367 | 13.8 | 0.9 | 26 | 12 | TA97A12Q | TA97A12Q | T. brucei | |
| 295 | 14 | 0.9 | 26 | 12 | AZ874370 | AZ874370 2M0188A01 | 368 | 13.8 | 0.9 | 26 | 12 | AZ464655 | AZ464655 | 1M0259D10 | |
| 296 | 14 | 0.9 | 28 | 12 | AZ794115 | AZ794115 2M0047D16 | 369 | 13.8 | 0.9 | 27 | 9 | AM246455 | AM246455 | 2821693.3 | |
| 297 | 14 | 0.9 | 29 | 12 | AZ439329 | AZ439329 2M0029M22 | 370 | 13.8 | 0.9 | 27 | 12 | AZ456654 | AZ456654 | 1M0259D10 | |
| 298 | 14 | 0.9 | 29 | 12 | AZ774674 | AZ774674 2M0004O10 | 371 | 13.8 | 0.9 | 27 | 12 | AZ776487 | AZ776487 | 1M0288C08 | |
| 299 | 14 | 0.9 | 30 | 10 | BI412700 | BI412700 602989191 | 372 | 13.8 | 0.9 | 27 | 12 | BH011509 | BH011509 | 2M0010G08 | |
| 300 | 14 | 0.9 | 30 | 12 | AZ584820 | AZ584820 1M0389A14 | 373 | 13.8 | 0.9 | 27 | 12 | A1188434 | A1188434 | qdi1a03.x | |
| 301 | 14 | 0.9 | 30 | 12 | AZ782553 | AZ782553 2M0023P14 | 374 | 13.8 | 0.9 | 28 | 9 | A1560563 | A1560563 | tg49b05.x | |
| 302 | 14 | 0.9 | 30 | 12 | AZ804486 | AZ804486 2M0065D07 | 375 | 13.8 | 0.9 | 28 | 10 | H26079 | H26079 | y156d10.r1 | |
| 303 | 14 | 0.9 | 30 | 12 | AZ877625 | AZ877625 aj60a06.s | 376 | 13.8 | 0.9 | 28 | 12 | AZ485673 | AZ485673 | 1M0313C14 | |
| 304 | 14 | 0.9 | 31 | 9 | AA860400 | AA860400 am64c12.s | 377 | 13.8 | 0.9 | 28 | 12 | AZ774078 | AZ774078 | 2M0003O01 | |
| 305 | 14 | 0.9 | 31 | 9 | AA989540 | AA989540 am64c12.s | 378 | 13.8 | 0.9 | 28 | 12 | AZ827062 | AZ827062 | 2M0103G13 | |
| 306 | 14 | 0.9 | 31 | 9 | AI654670 | AI654670 t993c05.x | 379 | 13.8 | 0.9 | 29 | 12 | AZ432529 | AZ432529 | 1M0218C04 | |
| 307 | 14 | 0.9 | 31 | 10 | BM395230 | BM395230 50072-2-8 | 380 | 13.8 | 0.9 | 29 | 12 | AZ623169 | AZ623169 | 1M0460001 | |
| 308 | 14 | 0.9 | 31 | 12 | AZ306398 | AZ306398 1M0007O21 | 381 | 13.8 | 0.9 | | | | | | |
| 309 | 14 | 0.9 | 31 | 12 | AZ363222 | AZ363222 1M0108H08 | 382 | 13.8 | 0.9 | | | | | | |

| | | | | | | | | | | | | | |
|-------|------|-----|----|----|-----------|--------------------|-------|------|-----|----|----|-----------|---------------------|
| 383 | 13.8 | 0.9 | 30 | 10 | BE384364 | 601277465 | C 456 | 13.6 | 0.8 | 28 | 9 | A1785472 | A1785472 u142f07.x |
| C 384 | 13.8 | 0.9 | 30 | 12 | AZ307649 | 1M0099E19 | C 457 | 13.6 | 0.8 | 28 | 12 | A2441859 | A2441859 1M0234D16 |
| C 385 | 13.8 | 0.9 | 30 | 12 | AZ513419 | 1M0359E24 | C 458 | 13.6 | 0.8 | 28 | 12 | A2860136 | A2860136 2M0166D02 |
| C 386 | 13.8 | 0.9 | 30 | 12 | AZ588957 | 1M0397E08 | C 459 | 13.6 | 0.8 | 28 | 12 | TA285H020 | TA285H020 T. brucei |
| 387 | 13.8 | 0.9 | 31 | 10 | A129818 | z113a12.r | C 460 | 13.6 | 0.8 | 29 | 12 | A2335439 | A2335439 1M0065E24 |
| 388 | 13.8 | 0.9 | 31 | 10 | BG537808 | 602566163 | C 461 | 13.6 | 0.8 | 29 | 12 | A2342886 | A2342886 1M0076E06 |
| 389 | 13.8 | 0.9 | 31 | 10 | BM400833 | 5009-0-8- | C 462 | 13.6 | 0.8 | 29 | 12 | A2387151 | A2387151 1M0146A19 |
| 390 | 13.8 | 0.9 | 31 | 12 | A2442044 | 1M0234J03 | C 463 | 13.6 | 0.8 | 29 | 12 | A2389780 | A2389780 1M0150G14 |
| 391 | 13.8 | 0.9 | 31 | 12 | A2826864 | 2M0102H20 | C 464 | 13.6 | 0.8 | 29 | 12 | A2636336 | A2636336 1M0495D12 |
| 392 | 13.8 | 0.9 | 32 | 10 | AU061789 | AU061789 | C 465 | 13.6 | 0.8 | 29 | 12 | A2642459 | A2642459 1M0505D06 |
| C 393 | 13.8 | 0.9 | 32 | 10 | BI086119 | 602870185 | C 466 | 13.6 | 0.8 | 29 | 12 | A2804183 | A2804183 2M0064A22 |
| C 394 | 13.8 | 0.9 | 32 | 10 | BI028012 | | C 467 | 13.6 | 0.8 | 29 | 12 | A2821985 | A2821985 2M0095E23 |
| C 395 | 13.8 | 0.9 | 32 | 10 | H55282 | | C 468 | 13.6 | 0.8 | 29 | 12 | A2827733 | A2827733 2M0104P15 |
| 396 | 13.8 | 0.9 | 32 | 12 | N72637 | yv73n10.r1 | C 469 | 13.6 | 0.8 | 29 | 12 | A2831178 | A2831178 2M0110I18 |
| 397 | 13.8 | 0.9 | 32 | 12 | TA156D070 | | C 470 | 13.6 | 0.8 | 29 | 12 | AG019559 | AG019559 Homo sapi |
| 398 | 13.8 | 0.9 | 33 | 10 | AM059793 | AM059793 LE5g11.Y9 | C 471 | 13.6 | 0.8 | 30 | 2 | HSM003148 | HSM003148 Homo sapi |
| 399 | 13.8 | 0.9 | 33 | 10 | BI155241 | 602917653 | C 472 | 13.6 | 0.8 | 30 | 10 | BG4000161 | BG4000161 602440944 |
| C 400 | 13.8 | 0.9 | 33 | 10 | BM015940 | 5009-0-56 | C 473 | 13.6 | 0.8 | 30 | 12 | AQ025411 | AQ025411 EP(X)1351 |
| C 401 | 13.8 | 0.9 | 33 | 10 | BM399354 | 5009-0-56 | C 474 | 13.6 | 0.8 | 30 | 12 | A2321898 | A2321898 1M0042K01 |
| C 402 | 13.8 | 0.9 | 33 | 12 | A2391565 | 1M0153F16 | C 475 | 13.6 | 0.8 | 30 | 12 | A2339895 | A2339895 1M0071M06 |
| C 403 | 13.8 | 0.9 | 33 | 12 | A2590329 | 1M0399E22 | C 476 | 13.6 | 0.8 | 30 | 12 | A2364675 | A2364675 1M010K20 |
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| C 405 | 13.8 | 0.9 | 33 | 12 | AZ807552 | 2M0070K02 | C 478 | 13.6 | 0.8 | 30 | 12 | A2604126 | A2604126 1M0423013 |
| 406 | 13.8 | 0.9 | 33 | 12 | TA154B080 | | C 479 | 13.6 | 0.8 | 30 | 12 | A2610578 | A2610578 1M0435M24 |
| 407 | 13.8 | 0.9 | 33 | 12 | TA227D090 | | C 480 | 13.6 | 0.8 | 30 | 12 | A2613059 | A2613059 1M0441D13 |
| 408 | 13.8 | 0.9 | 34 | 9 | AA748312 | oa54b07.s | C 481 | 13.6 | 0.8 | 30 | 12 | A2780802 | A2780802 2M0018E24 |
| C 409 | 13.8 | 0.9 | 34 | 9 | AA930856 | v271c06.s | C 482 | 13.6 | 0.8 | 30 | 12 | A2831042 | A2831042 2M00110P04 |
| C 410 | 13.8 | 0.9 | 34 | 9 | AA984692 | am89c08.s | C 483 | 13.6 | 0.8 | 31 | 9 | AA678305 | AA678305 z116B03.s |
| C 411 | 13.8 | 0.9 | 34 | 9 | AI000105 | os61c11.s | C 484 | 13.6 | 0.8 | 31 | 9 | AA910190 | AA910190 c129a03.s |
| C 412 | 13.8 | 0.9 | 34 | 9 | AI218040 | qh29a03.x | C 485 | 13.6 | 0.8 | 31 | 9 | AA928444 | AA928444 cm77d06.s |
| C 413 | 13.8 | 0.9 | 34 | 9 | AI457371 | tl73c05.x | C 486 | 13.6 | 0.8 | 31 | 9 | AA929219 | AA929219 cl729e03.r |
| C 414 | 13.8 | 0.9 | 34 | 9 | AI611445 | tl61c02.x | C 487 | 13.6 | 0.8 | 31 | 9 | AA939152 | AA939152 cl72b05.s |
| C 415 | 13.8 | 0.9 | 34 | 9 | AI814072 | wk62c10.x | C 488 | 13.6 | 0.8 | 31 | 9 | AI005618 | AI005618 cv15f06.s |
| C 416 | 13.8 | 0.9 | 34 | 9 | AI878708 | fc64g05.x | C 489 | 13.6 | 0.8 | 31 | 9 | AI0252023 | AI0252023 cw72a02.x |
| C 417 | 13.8 | 0.9 | 34 | 9 | AI914855 | tr26b02.x | C 490 | 13.6 | 0.8 | 31 | 9 | AI039381 | AI039381 ox40c02.s |
| 418 | 13.8 | 0.9 | 34 | 10 | BG513309 | 602559543 | C 491 | 13.6 | 0.8 | 31 | 9 | AI080996 | AI080996 cw78d01.s |
| 419 | 13.8 | 0.9 | 34 | 10 | BG612023 | 602613924 | C 492 | 13.6 | 0.8 | 31 | 9 | AI155496 | AI155496 gw15c07.x |
| C 420 | 13.8 | 0.9 | 34 | 10 | BG672874 | DRNA08A11 | C 493 | 13.6 | 0.8 | 31 | 9 | AI158351 | AI158351 gw14b08.x |
| C 421 | 13.8 | 0.9 | 34 | 10 | BM065014 | BJ065014 | C 494 | 13.6 | 0.8 | 31 | 9 | AI145875 | AI145875 t_j12h07.x |
| C 422 | 13.8 | 0.9 | 34 | 10 | BM396027 | 5009-0-15 | C 495 | 13.6 | 0.8 | 31 | 9 | AI160125 | AI160125 at79b03.x |
| C 423 | 13.8 | 0.9 | 34 | 10 | BM399526 | 5009-0-58 | C 496 | 13.6 | 0.8 | 31 | 9 | AL586283 | AL586283 AL586283 |
| C 424 | 13.8 | 0.9 | 34 | 10 | BE290615 | 601088324 | C 497 | 13.6 | 0.8 | 31 | 10 | BT739307 | BT739307 603359609 |
| C 425 | 13.8 | 0.9 | 34 | 12 | AZ485756 | 1M0313E19 | C 498 | 13.6 | 0.8 | 31 | 10 | T61693 | T61693 yb86f04.r1 |
| C 426 | 13.8 | 0.9 | 34 | 12 | AZ637027 | 1M0496P17 | C 499 | 13.6 | 0.8 | 31 | 10 | U44252 | U44252 ENW44252 As |
| C 427 | 13.8 | 0.9 | 34 | 12 | AZ663610 | 1M0543016 | C 500 | 13.6 | 0.8 | 31 | 12 | A2437960 | A2437960 1M0226A11 |
| C 428 | 13.8 | 0.9 | 34 | 12 | TA114H05P | | C 501 | 13.6 | 0.8 | 31 | 12 | A2442754 | A2442754 1M0237C11 |
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| 430 | 13.8 | 0.9 | 35 | 10 | BM399293 | 5009-0-56 | C 503 | 13.6 | 0.8 | 31 | 12 | A2579477 | A2579477 1M0367K08 |
| 431 | 13.8 | 0.9 | 35 | 12 | AZ481982 | 1M0306I09 | C 504 | 13.6 | 0.8 | 31 | 12 | A2761993 | A2761993 1M0556D11 |
| 432 | 13.8 | 0.9 | 35 | 12 | AZ784846 | 2M0028E11 | C 505 | 13.6 | 0.8 | 31 | 12 | A2810696 | A2810696 2M0076J22 |
| C 433 | 13.8 | 0.9 | 35 | 12 | AZ799448 | 2M0056M22 | C 506 | 13.6 | 0.8 | 31 | 12 | A2822422 | A2822422 2M0095L12 |
| C 434 | 13.8 | 0.9 | 35 | 12 | AZ810450 | 2M0076M05 | C 507 | 13.6 | 0.8 | 31 | 12 | AZ841047 | AZ841047 2M0138B21 |
| C 435 | 13.8 | 0.9 | 35 | 12 | AZ946037 | 2M0207G10 | C 508 | 13.6 | 0.8 | 32 | 2 | HSM003156 | HSM003156 Homo sapi |
| 436 | 13.8 | 0.9 | 35 | 12 | TA248D100 | | C 509 | 13.6 | 0.8 | 32 | 9 | AU009849 | AU009849 AU009849 |
| C 437 | 13.6 | 0.8 | 20 | 12 | AZ775620 | | C 510 | 13.6 | 0.8 | 32 | 9 | AV838306 | AV838306 AV838306 |
| 438 | 13.6 | 0.8 | 22 | 9 | A1688830 | wc94c08.x | C 511 | 13.6 | 0.8 | 32 | 9 | AW247502 | AW247502 2819588.s |
| 439 | 13.6 | 0.8 | 22 | 12 | AZ307488 | 1M0009B13 | C 512 | 13.6 | 0.8 | 32 | 10 | BM400272 | BM400272 5009-0-70 |
| C 440 | 13.6 | 0.8 | 22 | 12 | AZ382953 | 1M0140K01 | C 513 | 13.6 | 0.8 | 32 | 10 | T67801 | T67801 yC39a09.r |
| C 441 | 13.6 | 0.8 | 22 | 12 | AZ592243 | 1M0403F05 | C 514 | 13.6 | 0.8 | 32 | 12 | AZ387853 | AZ387853 1M0147K23 |
| C 442 | 13.6 | 0.8 | 22 | 12 | AZ641435 | 1M0503P21 | C 515 | 13.6 | 0.8 | 32 | 12 | AZ434394 | AZ434394 1M0220P13 |
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| C 444 | 13.6 | 0.8 | 24 | 12 | AZ440877 | 1M0232K11 | C 517 | 13.6 | 0.8 | 32 | 12 | A2861976 | A2861976 2M0169H04 |
| C 445 | 13.6 | 0.8 | 25 | 9 | A1096035 | SMOV13CAN | C 518 | 13.6 | 0.8 | 32 | 12 | A2971404 | A2971404 2M0244G20 |
| 446 | 13.6 | 0.8 | 25 | 12 | A1261405 | qK08c04.x | C 519 | 13.6 | 0.8 | 32 | 12 | TA308050 | TA308050 T. brucei |
| C 447 | 13.6 | 0.8 | 25 | 12 | AZ780325 | 2M0017N06 | C 520 | 13.6 | 0.8 | 33 | 12 | AQ0025391 | AQ0025391 EP(X)1130 |
| C 448 | 13.6 | 0.8 | 25 | 12 | AZ804962 | 2M0066E10 | C 521 | 13.6 | 0.8 | 33 | 12 | AZ336372 | AZ336372 1M0066C11 |
| C 449 | 13.6 | 0.8 | 26 | 12 | AZ462959 | 1M0271G04 | C 522 | 13.6 | 0.8 | 33 | 12 | AZ344777 | AZ344777 1M0079E01 |
| 450 | 13.6 | 0.8 | 27 | 12 | AZ345323 | 1M0079M16 | C 523 | 13.6 | 0.8 | 33 | 12 | AZ357001 | AZ357001 1M0098M16 |
| 451 | 13.6 | 0.8 | 27 | 12 | AZ495213 | 1M0331A04 | C 524 | 13.6 | 0.8 | 33 | 12 | AZ387171 | AZ387171 1M0146I20 |
| C 452 | 13.6 | 0.8 | 27 | 12 | AZ776617 | 2M0010D23 | C 525 | 13.6 | 0.8 | 33 | 12 | AZ445449 | AZ445449 1M0241H14 |
| C 453 | 13.6 | 0.8 | 27 | 12 | AZ937414 | 2M0195P05 | C 526 | 13.6 | 0.8 | 33 | 12 | AZ506808 | AZ506808 1M0348E12 |
| C 454 | 13.6 | 0.8 | 28 | 9 | AA990156 | ua60d03.r | C 527 | 13.6 | 0.8 | 33 | 12 | AZ594891 | AZ594891 1M0407F07 |
| C 455 | 13.6 | 0.8 | 28 | 9 | A1572975 | tn64f09.x | C 528 | 13.6 | 0.8 | 33 | 12 | AZ759871 | AZ759871 1M0553I04 |

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|-----|------|-----|----|----|-----------|--------------------|-------------|-----|------|-----|----|----|-----------|
| 529 | 13.6 | 0.8 | 33 | 12 | Az781755 | Az781755 | 2M0021014 | 602 | 13.4 | 0.8 | 31 | 9 | AA915785 |
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| 531 | 13.6 | 0.8 | 33 | 12 | Az839021 | Az839021 | 2M0134P21 | 604 | 13.4 | 0.8 | 31 | 9 | AI0021071 |
| 532 | 13.6 | 0.8 | 33 | 12 | Az988225 | Az988225 | 2M0285L02 | 605 | 13.4 | 0.8 | 31 | 9 | AI194534 |
| 533 | 13.6 | 0.8 | 33 | 12 | TA135E06Q | AL465799 T. brucei | | 606 | 13.4 | 0.8 | 31 | 9 | AI194534 |
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| 535 | 13.6 | 0.8 | 34 | 9 | AA861409 | AA861409 | ak34a12.s | 608 | 13.4 | 0.8 | 31 | 12 | Az242567 |
| 536 | 13.6 | 0.8 | 34 | 9 | AI000150 | AI000150 | os43f01.s | 609 | 13.4 | 0.8 | 31 | 12 | Az242567 |
| 537 | 13.6 | 0.8 | 34 | 9 | AI368216 | AI368216 | qy99c06.x | 610 | 13.4 | 0.8 | 31 | 12 | TA326R03Q |
| 538 | 13.6 | 0.8 | 34 | 9 | AI619986 | AI619986 | ly46g10.x | 611 | 13.4 | 0.8 | 32 | 9 | AU006847 |
| 539 | 13.6 | 0.8 | 34 | 9 | AA211985 | AA211985 | mc89f03.r | 612 | 13.4 | 0.8 | 32 | 9 | AV834231 |
| 540 | 13.6 | 0.8 | 34 | 10 | BI094785 | BI094785 | EST-CD34N | 613 | 13.4 | 0.8 | 32 | 10 | AW333574 |
| 541 | 13.6 | 0.8 | 34 | 10 | BJ067168 | BJ067168 | BJ067168 | 614 | 13.4 | 0.8 | 32 | 10 | BI091661 |
| 542 | 13.6 | 0.8 | 34 | 10 | H22189 | H22189 | Y138C01.r1 | 615 | 13.4 | 0.8 | 32 | 10 | BJ032590 |
| 543 | 13.6 | 0.8 | 34 | 10 | H22671 | H22671 | Yn67C01.r1 | 616 | 13.4 | 0.8 | 32 | 12 | AZ309847 |
| 544 | 13.6 | 0.8 | 34 | 10 | H86269 | H86269 | Yt04B10.r1 | 617 | 13.4 | 0.8 | 32 | 12 | AZ313542 |
| 545 | 13.6 | 0.8 | 34 | 10 | T59625 | T59625 | Yb66d05.s1 | 618 | 13.4 | 0.8 | 32 | 12 | AZ313542 |
| 546 | 13.6 | 0.8 | 34 | 10 | T74961 | T74961 | Yc85b03.r1 | 619 | 13.4 | 0.8 | 32 | 12 | AZ324973 |
| 547 | 13.6 | 0.8 | 34 | 12 | Az329468 | Az329468 | 1M0053B14 | 620 | 13.4 | 0.8 | 32 | 12 | AZ381426 |
| 548 | 13.6 | 0.8 | 34 | 12 | Az491530 | Az491530 | 1M0325H09 | 621 | 13.4 | 0.8 | 32 | 12 | AZ467533 |
| 549 | 13.6 | 0.8 | 34 | 12 | Az514577 | Az514577 | 1M0361P11 | 622 | 13.4 | 0.8 | 32 | 12 | AZ489641 |
| 550 | 13.6 | 0.8 | 34 | 12 | Az808851 | Az808851 | 2M0072004 | 623 | 13.4 | 0.8 | 32 | 12 | AZ634653 |
| 551 | 13.6 | 0.8 | 34 | 12 | Az817187 | Az817187 | 2M0086E22 | 624 | 13.4 | 0.8 | 32 | 12 | AZ667145 |
| 552 | 13.6 | 0.8 | 34 | 12 | Az827876 | Az827876 | 2M0104M01 | 625 | 13.4 | 0.8 | 33 | 9 | AV836794 |
| 553 | 13.6 | 0.8 | 34 | 12 | Az966348 | Az966348 | 2M0236J13 | 626 | 13.4 | 0.8 | 33 | 9 | AA491666 |
| 554 | 13.6 | 0.8 | 34 | 12 | TA322G12P | AL493484 T. brucei | | 627 | 13.4 | 0.8 | 33 | 10 | BG529354 |
| 555 | 13.6 | 0.8 | 35 | 10 | CO2422 | CO2422 | HUMGS001229 | 628 | 13.4 | 0.8 | 33 | 12 | AZ331539 |
| 556 | 13.6 | 0.8 | 35 | 10 | BF239380 | BF239380 | 601906237 | 629 | 13.4 | 0.8 | 33 | 12 | AZ344777 |
| 557 | 13.6 | 0.8 | 35 | 12 | Az310047 | Az310047 | 1M0018M10 | 630 | 13.4 | 0.8 | 33 | 12 | AZ359461 |
| 558 | 13.6 | 0.8 | 35 | 12 | Az317100 | Az317100 | 1M0035E01 | 631 | 13.4 | 0.8 | 33 | 12 | AZ359461 |
| 559 | 13.6 | 0.8 | 35 | 12 | Az481652 | Az481652 | 1M0306I05 | 632 | 13.4 | 0.8 | 33 | 12 | AZ635403 |
| 560 | 13.6 | 0.8 | 35 | 12 | Az807171 | Az807171 | 2M0069H18 | 633 | 13.4 | 0.8 | 33 | 12 | AZ837926 |
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| 562 | 13.4 | 0.8 | 20 | 12 | Az659612 | Az659612 | 1M0537A07 | 635 | 13.4 | 0.8 | 34 | 2 | HSM001637 |
| 563 | 13.4 | 0.8 | 21 | 12 | Az623540 | Az623540 | 1M0461G23 | 636 | 13.4 | 0.8 | 34 | 9 | AA030623 |
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| 567 | 13.4 | 0.8 | 23 | 12 | Az488138 | Az488138 | 1M0318E13 | 640 | 13.4 | 0.8 | 34 | 9 | AA984692 |
| 568 | 13.4 | 0.8 | 23 | 12 | TA36D05P | AL453646 T. brucei | | 641 | 13.4 | 0.8 | 34 | 9 | AI000152 |
| 569 | 13.4 | 0.8 | 24 | 10 | L32046 | L32046 | HUMXP3A1B H | 642 | 13.4 | 0.8 | 34 | 9 | AI018530 |
| 570 | 13.4 | 0.8 | 24 | 12 | Az627850 | Az627850 | 1M0474N20 | 643 | 13.4 | 0.8 | 34 | 9 | AI1223122 |
| 571 | 13.4 | 0.8 | 24 | 12 | Az819888 | Az819888 | 2M00091H18 | 644 | 13.4 | 0.8 | 34 | 9 | AI1264286 |
| 572 | 13.4 | 0.8 | 25 | 9 | AI914887 | AI914887 | tz62f09.x | 645 | 13.4 | 0.8 | 34 | 9 | AI161454 |
| 573 | 13.4 | 0.8 | 25 | 10 | T57657 | T57657 | yb59h02.s1 | 646 | 13.4 | 0.8 | 34 | 9 | AA114877 |
| 574 | 13.4 | 0.8 | 25 | 12 | Az431597 | Az431597 | 1M0216C10 | 647 | 13.4 | 0.8 | 34 | 9 | AI152428 |
| 575 | 13.4 | 0.8 | 25 | 12 | Az510410 | Az510410 | 1M0354H21 | 648 | 13.4 | 0.8 | 34 | 9 | AI1590651 |
| 576 | 13.4 | 0.8 | 25 | 12 | Az598434 | Az598434 | 1M0413D18 | 649 | 13.4 | 0.8 | 34 | 9 | AI1628300 |
| 577 | 13.4 | 0.8 | 25 | 12 | BH214572 | BH214572 | KG00724-5 | 650 | 13.4 | 0.8 | 34 | 9 | AI1636458 |
| 578 | 13.4 | 0.8 | 26 | 9 | AU0116325 | AU0116325 | | 651 | 13.4 | 0.8 | 34 | 9 | AI1653845 |
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| 585 | 13.4 | 0.8 | 27 | 12 | Az838052 | Az838052 | 2M0133P06 | 658 | 13.4 | 0.8 | 34 | 10 | BG700851 |
| 586 | 13.4 | 0.8 | 28 | 9 | AI351154 | AI351154 | qtl1911.x | 659 | 13.4 | 0.8 | 34 | 10 | BI040736 |
| 587 | 13.4 | 0.8 | 28 | 12 | Az511067 | Az511067 | 1M0355L23 | 660 | 13.4 | 0.8 | 34 | 10 | BUT07665 |
| 588 | 13.4 | 0.8 | 28 | 12 | Az645934 | Az645934 | 1M0511N12 | 661 | 13.4 | 0.8 | 34 | 10 | D25858 |
| 589 | 13.4 | 0.8 | 29 | 9 | AM059655 | AM059655 | AHUTH.bss | 662 | 13.4 | 0.8 | 34 | 10 | R60423 |
| 590 | 13.4 | 0.8 | 29 | 12 | BH011371 | BH011371 | BG01221-5 | 663 | 13.4 | 0.8 | 34 | 12 | AZ304044 |
| 591 | 13.4 | 0.8 | 30 | 10 | BI222858 | BI222858 | 602941108 | 664 | 13.4 | 0.8 | 34 | 12 | AZ304651 |
| 592 | 13.4 | 0.8 | 30 | 10 | BM395434 | BM395434 | 50072-2-9 | 665 | 13.4 | 0.8 | 34 | 12 | AZ309524 |
| 593 | 13.4 | 0.8 | 30 | 10 | L32004 | L32004 | HUMSG12R Hu | 666 | 13.4 | 0.8 | 34 | 12 | AZ335868 |
| 594 | 13.4 | 0.8 | 30 | 12 | AQ025600 | AQ025600 | 1(2)102839 | 667 | 13.4 | 0.8 | 34 | 12 | AZ335868 |
| 595 | 13.4 | 0.8 | 30 | 12 | Az345910 | Az345910 | 1M0080G20 | 668 | 13.4 | 0.8 | 34 | 12 | AZ602788 |
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| 597 | 13.4 | 0.8 | 30 | 12 | Az406515 | Az406515 | 1M0175114 | 670 | 13.4 | 0.8 | 34 | 12 | AZ810142 |
| 598 | 13.4 | 0.8 | 30 | 12 | Az868793 | Az868793 | 2M0160H09 | 671 | 13.4 | 0.8 | 34 | 12 | AZ811764 |
| 599 | 13.4 | 0.8 | 30 | 12 | TA326H03P | AL423940 T. brucei | | 672 | 13.4 | 0.8 | 34 | 12 | AZ996405 |
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| 601 | 13.4 | 0.8 | 31 | 9 | AA913283 | AA913283 | om93a04.s | 674 | 13.4 | 0.8 | 34 | 12 | TA164G09Q |

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|-------|------|-----|----|----|-----------|-----------|-----|------|-----|----|----|-----------|
| C 675 | 13.4 | 0.8 | 35 | 9 | AV836236 | AV836236 | 748 | 13.2 | 0.8 | 29 | 12 | TA22AC08P |
| C 676 | 13.4 | 0.8 | 35 | 10 | BI545196 | BI545196 | 749 | 13.2 | 0.8 | 30 | 9 | AM248759 |
| C 677 | 13.4 | 0.8 | 35 | 10 | BI668131 | BI668131 | 750 | 13.2 | 0.8 | 30 | 10 | BI223044 |
| C 678 | 13.4 | 0.8 | 35 | 10 | BF338797 | BF338797 | 751 | 13.2 | 0.8 | 30 | 10 | BE901390 |
| C 679 | 13.4 | 0.8 | 35 | 12 | AZ389531 | AZ389531 | 752 | 13.2 | 0.8 | 30 | 12 | AZ458127 |
| C 680 | 13.4 | 0.8 | 35 | 12 | AZ410442 | AZ410442 | 753 | 13.2 | 0.8 | 30 | 12 | AZ828475 |
| C 681 | 13.4 | 0.8 | 35 | 12 | AZ435121 | AZ435121 | 754 | 13.2 | 0.8 | 30 | 12 | AZ862004 |
| C 682 | 13.4 | 0.8 | 35 | 12 | AZ492866 | AZ492866 | 755 | 13.2 | 0.8 | 30 | 12 | BH610073 |
| C 683 | 13.4 | 0.8 | 35 | 12 | AZ499700 | AZ499700 | 756 | 13.2 | 0.8 | 30 | 12 | TA263BH0Q |
| C 684 | 13.4 | 0.8 | 35 | 12 | AZ505019 | AZ505019 | 757 | 13.2 | 0.8 | 31 | 9 | AA912393 |
| C 685 | 13.4 | 0.8 | 35 | 12 | AZ590713 | AZ590713 | 758 | 13.2 | 0.8 | 31 | 9 | AI055598 |
| C 686 | 13.4 | 0.8 | 35 | 12 | AZ829796 | AZ829796 | 759 | 13.2 | 0.8 | 31 | 9 | AI422071 |
| C 687 | 13.2 | 0.8 | 19 | 12 | AZ345792 | AZ345792 | 760 | 13.2 | 0.8 | 31 | 9 | AI813521 |
| C 688 | 13.2 | 0.8 | 19 | 12 | AZ470220 | AZ470220 | 761 | 13.2 | 0.8 | 31 | 9 | AI197365 |
| C 689 | 13.2 | 0.8 | 21 | 12 | AZ387187 | AZ387187 | 762 | 13.2 | 0.8 | 31 | 9 | AU009970 |
| C 690 | 13.2 | 0.8 | 21 | 12 | AZ435931 | AZ435931 | 763 | 13.2 | 0.8 | 31 | 9 | AU009989 |
| C 691 | 13.2 | 0.8 | 21 | 12 | AZ813920 | AZ813920 | 764 | 13.2 | 0.8 | 31 | 10 | BM396146 |
| C 692 | 13.2 | 0.8 | 22 | 9 | AI758492 | AI758492 | 765 | 13.2 | 0.8 | 31 | 10 | RA8319 |
| C 693 | 13.2 | 0.8 | 22 | 12 | AQ990225 | AQ990225 | 766 | 13.2 | 0.8 | 31 | 10 | BE901937 |
| C 694 | 13.2 | 0.8 | 22 | 12 | AZ655548 | AZ655548 | 767 | 13.2 | 0.8 | 31 | 12 | AZ372016 |
| C 695 | 13.2 | 0.8 | 24 | 12 | PC8303918 | PC8303918 | 768 | 13.2 | 0.8 | 31 | 12 | AZ455594 |
| C 696 | 13.2 | 0.8 | 24 | 12 | TA208D09P | TA208D09P | 769 | 13.2 | 0.8 | 31 | 12 | AZ512776 |
| C 697 | 13.2 | 0.8 | 24 | 12 | TA236F01Q | TA236F01Q | 770 | 13.2 | 0.8 | 31 | 12 | AZ627956 |
| C 698 | 13.2 | 0.8 | 25 | 9 | AA953687 | AA953687 | 771 | 13.2 | 0.8 | 31 | 12 | AZ772224 |
| C 699 | 13.2 | 0.8 | 25 | 9 | AI3444221 | AI3444221 | 772 | 13.2 | 0.8 | 31 | 12 | AZ772951 |
| C 700 | 13.2 | 0.8 | 25 | 10 | H93534 | H93534 | 773 | 13.2 | 0.8 | 31 | 12 | AZ785111 |
| C 701 | 13.2 | 0.8 | 25 | 12 | AZ346715 | AZ346715 | 774 | 13.2 | 0.8 | 31 | 12 | AZ799344 |
| C 702 | 13.2 | 0.8 | 25 | 12 | TA61C060 | TA61C060 | 775 | 13.2 | 0.8 | 31 | 12 | AZ856886 |
| C 703 | 13.2 | 0.8 | 26 | 12 | AZ331583 | AZ331583 | 776 | 13.2 | 0.8 | 31 | 12 | AZ979245 |
| C 704 | 13.2 | 0.8 | 26 | 12 | AZ376746 | AZ376746 | 777 | 13.2 | 0.8 | 31 | 12 | TA202H01Q |
| C 705 | 13.2 | 0.8 | 26 | 12 | AZ438866 | AZ438866 | 778 | 13.2 | 0.8 | 32 | 10 | BI826992 |
| C 706 | 13.2 | 0.8 | 26 | 12 | AZ458138 | AZ458138 | 779 | 13.2 | 0.8 | 32 | 10 | BM400411 |
| C 707 | 13.2 | 0.8 | 26 | 12 | AZ579594 | AZ579594 | 780 | 13.2 | 0.8 | 32 | 10 | BM401192 |
| C 708 | 13.2 | 0.8 | 26 | 12 | AZ591664 | AZ591664 | 781 | 13.2 | 0.8 | 32 | 10 | DI19993 |
| C 709 | 13.2 | 0.8 | 26 | 12 | AZ783417 | AZ783417 | 782 | 13.2 | 0.8 | 32 | 12 | AZ303920 |
| C 710 | 13.2 | 0.8 | 26 | 12 | AZ803946 | AZ803946 | 783 | 13.2 | 0.8 | 32 | 12 | AZ313322 |
| C 711 | 13.2 | 0.8 | 26 | 12 | AZ992893 | AZ992893 | 784 | 13.2 | 0.8 | 32 | 12 | AZ328612 |
| C 712 | 13.2 | 0.8 | 26 | 12 | TA259C12P | TA259C12P | 785 | 13.2 | 0.8 | 32 | 12 | AZ333913 |
| C 713 | 13.2 | 0.8 | 27 | 12 | AZ307201 | AZ307201 | 786 | 13.2 | 0.8 | 32 | 12 | AZ477759 |
| C 714 | 13.2 | 0.8 | 27 | 12 | AZ322658 | AZ322658 | 787 | 13.2 | 0.8 | 32 | 12 | AZ488329 |
| C 715 | 13.2 | 0.8 | 27 | 12 | AZ397395 | AZ397395 | 788 | 13.2 | 0.8 | 32 | 12 | AZ579652 |
| C 716 | 13.2 | 0.8 | 27 | 12 | AZ608246 | AZ608246 | 789 | 13.2 | 0.8 | 32 | 12 | AZ627842 |
| C 717 | 13.2 | 0.8 | 27 | 12 | AZ627993 | AZ627993 | 790 | 13.2 | 0.8 | 32 | 12 | AZ791364 |
| C 718 | 13.2 | 0.8 | 27 | 12 | AZ660469 | AZ660469 | 791 | 13.2 | 0.8 | 32 | 12 | AZ804185 |
| C 719 | 13.2 | 0.8 | 27 | 12 | AZ784820 | AZ784820 | 792 | 13.2 | 0.8 | 32 | 12 | AZ834299 |
| C 720 | 13.2 | 0.8 | 27 | 12 | AZ794078 | AZ794078 | 793 | 13.2 | 0.8 | 32 | 12 | TA127F11P |
| C 721 | 13.2 | 0.8 | 27 | 12 | AZ866643 | AZ866643 | 794 | 13.2 | 0.8 | 32 | 12 | TA202D03P |
| C 722 | 13.2 | 0.8 | 27 | 12 | AZ970621 | AZ970621 | 795 | 13.2 | 0.8 | 32 | 12 | TA230A08P |
| C 723 | 13.2 | 0.8 | 27 | 12 | TA159D04P | TA159D04P | 796 | 13.2 | 0.8 | 32 | 10 | BI914099 |
| C 724 | 13.2 | 0.8 | 28 | 9 | AI038877 | AI038877 | 797 | 13.2 | 0.8 | 33 | 10 | BI914099 |
| C 725 | 13.2 | 0.8 | 28 | 9 | AI306628 | AI306628 | 798 | 13.2 | 0.8 | 33 | 10 | BM060580 |
| C 726 | 13.2 | 0.8 | 28 | 9 | AI307722 | AI307722 | 799 | 13.2 | 0.8 | 33 | 10 | BM060580 |
| C 727 | 13.2 | 0.8 | 28 | 9 | AI445347 | AI445347 | 800 | 13.2 | 0.8 | 33 | 12 | TA7054 |
| C 728 | 13.2 | 0.8 | 28 | 9 | AI544609 | AI544609 | 801 | 13.2 | 0.8 | 33 | 12 | AZ490579 |
| C 729 | 13.2 | 0.8 | 28 | 9 | AI633008 | AI633008 | 802 | 13.2 | 0.8 | 33 | 12 | AZ619483 |
| C 730 | 13.2 | 0.8 | 28 | 9 | AI917540 | AI917540 | 803 | 13.2 | 0.8 | 33 | 12 | AZ620111 |
| C 731 | 13.2 | 0.8 | 28 | 12 | AZ343819 | AZ343819 | 804 | 13.2 | 0.8 | 33 | 12 | AZ766467 |
| C 732 | 13.2 | 0.8 | 28 | 12 | AZ393146 | AZ393146 | 805 | 13.2 | 0.8 | 33 | 12 | AZ841697 |
| C 733 | 13.2 | 0.8 | 28 | 12 | AZ785005 | AZ785005 | 806 | 13.2 | 0.8 | 34 | 9 | AA854490 |
| C 734 | 13.2 | 0.8 | 28 | 12 | AZ819174 | AZ819174 | 807 | 13.2 | 0.8 | 34 | 9 | AA869975 |
| C 735 | 13.2 | 0.8 | 28 | 12 | AZ822986 | AZ822986 | 808 | 13.2 | 0.8 | 34 | 9 | AA869975 |
| C 736 | 13.2 | 0.8 | 28 | 12 | AZ830168 | AZ830168 | 809 | 13.2 | 0.8 | 34 | 9 | AA954884 |
| C 737 | 13.2 | 0.8 | 28 | 12 | AZ958417 | AZ958417 | 810 | 13.2 | 0.8 | 34 | 9 | AA994607 |
| C 738 | 13.2 | 0.8 | 28 | 12 | TA48H07Q | TA48H07Q | 811 | 13.2 | 0.8 | 34 | 9 | AI096142 |
| C 739 | 13.2 | 0.8 | 29 | 10 | HI5932 | HI5932 | 812 | 13.2 | 0.8 | 34 | 9 | AI1270065 |
| C 740 | 13.2 | 0.8 | 29 | 12 | AZ335439 | AZ335439 | 813 | 13.2 | 0.8 | 34 | 9 | AI1584572 |
| C 741 | 13.2 | 0.8 | 29 | 12 | AZ335947 | AZ335947 | 814 | 13.2 | 0.8 | 34 | 9 | AI1587876 |
| C 742 | 13.2 | 0.8 | 29 | 12 | AZ592381 | AZ592381 | 815 | 13.2 | 0.8 | 34 | 9 | AA1488571 |
| C 743 | 13.2 | 0.8 | 29 | 12 | AZ598779 | AZ598779 | 816 | 13.2 | 0.8 | 34 | 9 | AA288354 |
| C 744 | 13.2 | 0.8 | 29 | 12 | AZ646146 | AZ646146 | 817 | 13.2 | 0.8 | 34 | 9 | AA452062 |
| C 745 | 13.2 | 0.8 | 29 | 12 | AZ840085 | AZ840085 | 818 | 13.2 | 0.8 | 34 | 9 | AA509644 |
| C 746 | 13.2 | 0.8 | 29 | 12 | AZ958433 | AZ958433 | 819 | 13.2 | 0.8 | 34 | 9 | AA568290 |
| C 747 | 13.2 | 0.8 | 29 | 12 | AZ973455 | AZ973455 | 820 | 13.2 | 0.8 | 34 | 10 | BM536263 |
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|-----|------|-----|----|----|-----------|---------------------|-----|----|-----|----|----|-----------|---------------------|
| 821 | 13.2 | 0.8 | 34 | 10 | BM396865 | BM396865 5009-0-26 | 894 | 13 | 0.8 | 29 | 12 | AZ307046 | AZ307046 1M0008E24 |
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| 823 | 13.2 | 0.8 | 34 | 10 | T89869 | T89869 yd99e12.s1 | 896 | 13 | 0.8 | 29 | 12 | AZ455946 | AZ455946 1M0258101 |
| 824 | 13.2 | 0.8 | 34 | 10 | W34704 | W34704 mc31b09.r1 | 897 | 13 | 0.8 | 29 | 12 | AZ485486 | AZ485486 1M0332120 |
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| 831 | 13.2 | 0.8 | 34 | 12 | AZ856611 | AZ856611 2M0161P06 | 904 | 13 | 0.8 | 29 | 12 | AZ936523 | AZ936523 2M0193E13 |
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| 834 | 13.2 | 0.8 | 35 | 10 | BM397399 | BM397399 5009-0-32 | 907 | 13 | 0.8 | 30 | 9 | AM251024 | AM251024 2821201.3 |
| 835 | 13.2 | 0.8 | 35 | 10 | N38850 | N38850 yy80e11.r1 | 908 | 13 | 0.8 | 30 | 10 | D45813 | D45813 HDMS03031 |
| 836 | 13.2 | 0.8 | 35 | 10 | R99708 | R99708 yq72f08.r1 | 909 | 13 | 0.8 | 30 | 10 | D45820 | D45820 HDMS03039 |
| 837 | 13.2 | 0.8 | 35 | 12 | AZ351309 | AZ351309 1M0089K13 | 910 | 13 | 0.8 | 30 | 12 | AZ310102 | AZ310102 1M0018D24 |
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| 841 | 13 | 0.8 | 21 | 10 | BM148986 | BM148986 TCARP2E55 | 914 | 13 | 0.8 | 30 | 12 | AZ610573 | AZ610573 1M0435L20 |
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| 845 | 13 | 0.8 | 21 | 12 | TA52G090 | TA52G090 T. bruce1 | 918 | 13 | 0.8 | 30 | 12 | AZ841194 | AZ841194 2M0139L03 |
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| 854 | 13 | 0.8 | 23 | 10 | BG924553 | BG924553 HMC27-1-H | 927 | 13 | 0.8 | 31 | 9 | AI002023 | AI002023 ot40h06.s |
| 855 | 13 | 0.8 | 23 | 10 | BM399559 | BM399559 5009-0-59 | 928 | 13 | 0.8 | 31 | 9 | AI188860 | AI188860 qd27a10.x |
| 856 | 13 | 0.8 | 23 | 12 | AZ474179 | AZ474179 1M0290E01 | 929 | 13 | 0.8 | 31 | 9 | AI379850 | AI379850 te29c07.x |
| 857 | 13 | 0.8 | 23 | 12 | AZ499076 | AZ499076 1M0336H08 | 930 | 13 | 0.8 | 31 | 9 | AA239687 | AA239687 mv23f04.r |
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| 859 | 13 | 0.8 | 23 | 12 | AZ803773 | AZ803773 2M0064P16 | 932 | 13 | 0.8 | 31 | 12 | AZ317131 | AZ317131 1M0035F16 |
| 860 | 13 | 0.8 | 23 | 12 | TA101C010 | TA101C010 T. bruce1 | 933 | 13 | 0.8 | 31 | 12 | AZ411434 | AZ411434 1M0184C04 |
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| 862 | 13 | 0.8 | 24 | 12 | AZ310622 | AZ310622 1M0025J09 | 935 | 13 | 0.8 | 31 | 12 | AZ438212 | AZ438212 1M0228K09 |
| 863 | 13 | 0.8 | 24 | 12 | AZ656029 | AZ656029 1M0531O18 | 936 | 13 | 0.8 | 31 | 12 | AZ486763 | AZ486763 1M0315A11 |
| 864 | 13 | 0.8 | 24 | 12 | AZ762096 | AZ762096 1M0556J18 | 937 | 13 | 0.8 | 31 | 12 | AZ492732 | AZ492732 1M0327E06 |
| 865 | 13 | 0.8 | 24 | 12 | AZ988252 | AZ988252 2M0271G08 | 938 | 13 | 0.8 | 31 | 12 | AZ601768 | AZ601768 1M0438B02 |
| 866 | 13 | 0.8 | 24 | 12 | TA363E08P | TA363E08 T. bruce1 | 939 | 13 | 0.8 | 31 | 12 | AZ611578 | AZ611578 1M0438B02 |
| 867 | 13 | 0.8 | 25 | 9 | AI696590 | AI696590 kx68b11.x | 940 | 13 | 0.8 | 31 | 12 | TA178H08P | TA178H08P |
| 868 | 13 | 0.8 | 25 | 10 | BM399135 | BM399135 5009-0-53 | 941 | 13 | 0.8 | 32 | 10 | BG501238 | BG501238 602547802 |
| 869 | 13 | 0.8 | 25 | 12 | AZ331638 | AZ331638 1M0059O11 | 942 | 13 | 0.8 | 32 | 10 | BG870762 | BG870762 602792190 |
| 870 | 13 | 0.8 | 25 | 12 | AZ462652 | AZ462652 1M0269O12 | 943 | 13 | 0.8 | 32 | 10 | BE547551 | BE547551 601075188 |
| 871 | 13 | 0.8 | 25 | 12 | TA104C02Q | TA104C02Q T. bruce1 | 944 | 13 | 0.8 | 32 | 12 | AZ333185 | AZ333185 1M0062E09 |
| 872 | 13 | 0.8 | 26 | 10 | BM398746 | BM398746 5009-0-49 | 945 | 13 | 0.8 | 32 | 12 | AZ345608 | AZ345608 1M0080C21 |
| 873 | 13 | 0.8 | 26 | 12 | AZ588392 | AZ588392 1M0396L12 | 946 | 13 | 0.8 | 32 | 12 | AZ387638 | AZ387638 1M0147B14 |
| 874 | 13 | 0.8 | 27 | 9 | AV741507 | AV741507 1M0396L12 | 947 | 13 | 0.8 | 32 | 12 | AZ420867 | AZ420867 1M0198F22 |
| 875 | 13 | 0.8 | 27 | 12 | AQ026157 | AQ026157 1(3)00506 | 948 | 13 | 0.8 | 32 | 12 | AZ491344 | AZ491344 1M0346B22 |
| 876 | 13 | 0.8 | 27 | 12 | AQ073772 | AQ073772 EP(3)3136 | 949 | 13 | 0.8 | 32 | 12 | AZ591325 | AZ591325 1M0406L01 |
| 877 | 13 | 0.8 | 27 | 12 | AQ073845 | AQ073845 EP(3)3236 | 950 | 13 | 0.8 | 32 | 12 | AZ632065 | AZ632065 1M0486H03 |
| 878 | 13 | 0.8 | 27 | 12 | AZ463355 | AZ463355 1M0272E09 | 951 | 13 | 0.8 | 32 | 12 | AZ774497 | AZ774497 2M00061A22 |
| 879 | 13 | 0.8 | 27 | 12 | AZ590063 | AZ590063 1M0399M24 | 952 | 13 | 0.8 | 32 | 12 | AZ802444 | AZ802444 2M0061A22 |
| 880 | 13 | 0.8 | 27 | 12 | AZ607381 | AZ607381 1M0429K17 | 953 | 13 | 0.8 | 32 | 12 | AZ823415 | AZ823415 2M0097N22 |
| 881 | 13 | 0.8 | 27 | 12 | AZ797801 | AZ797801 2M0054A18 | 954 | 13 | 0.8 | 32 | 12 | AZ949191 | AZ949191 2M0212K02 |
| 882 | 13 | 0.8 | 27 | 12 | AZ811086 | AZ811086 2M0077L05 | 955 | 13 | 0.8 | 32 | 12 | AZ988809 | AZ988809 2M0271N21 |
| 883 | 13 | 0.8 | 28 | 9 | AA773053 | AA773053 ag96c10.s | 956 | 13 | 0.8 | 32 | 12 | TA379B12P | TA379B12P |
| 884 | 13 | 0.8 | 28 | 9 | AI435006 | AI435006 ch76907.x | 957 | 13 | 0.8 | 33 | 9 | AV834307 | AV834307 AV834307 |
| 885 | 13 | 0.8 | 28 | 9 | AI687937 | AI687937 lp99d01.x | 958 | 13 | 0.8 | 33 | 9 | AV851514 | AV851514 AV851514 |
| 886 | 13 | 0.8 | 28 | 9 | AA590594 | AA590594 vnsf07.r | 959 | 13 | 0.8 | 33 | 10 | BG505723 | BG505723 602549896 |
| 887 | 13 | 0.8 | 28 | 9 | AA590594 | AA590594 vnsf07.r | 960 | 13 | 0.8 | 33 | 10 | BM392440 | BM392440 50071-2-1 |
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| 889 | 13 | 0.8 | 28 | 12 | AZ345466 | AZ345466 1M0080N10 | 962 | 13 | 0.8 | 33 | 10 | BM393652 | BM393652 50072-2-1 |
| 890 | 13 | 0.8 | 28 | 12 | AZ591734 | AZ591734 1M0402D05 | 963 | 13 | 0.8 | 33 | 10 | BM394082 | BM394082 50072-2-1 |
| 891 | 13 | 0.8 | 28 | 12 | AZ956335 | AZ956335 2M0222K13 | 964 | 13 | 0.8 | 33 | 10 | BM396916 | BM396916 5009-0-26 |
| 892 | 13 | 0.8 | 28 | 12 | TA18B07P | TA18B07P T. bruce1 | 965 | 13 | 0.8 | 33 | 10 | BF026764 | BF026764 601672012 |
| 893 | 13 | 0.8 | 28 | 12 | TA18B07P | TA18B07P T. bruce1 | 966 | 13 | 0.8 | 33 | 12 | AZ342368 | AZ342368 1M0075H24 |

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|-------|----|-----|----|----|-----------|-----------|-------------|
| C 967 | 13 | 0.8 | 33 | 12 | A2443820 | A2443820 | 1M0238106 |
| C 968 | 13 | 0.8 | 33 | 12 | A2465886 | A2465886 | 1M0276D10 |
| C 969 | 13 | 0.8 | 33 | 12 | A2489968 | A2489968 | 1M0332013 |
| C 970 | 13 | 0.8 | 33 | 12 | A2591773 | A2591773 | 1M0402M08 |
| C 971 | 13 | 0.8 | 33 | 12 | A2629797 | A2629797 | 1M0476L03 |
| C 972 | 13 | 0.8 | 33 | 12 | A2759642 | A2759642 | 1M0552E03 |
| C 973 | 13 | 0.8 | 33 | 12 | A2772019 | A2772019 | 1M0574C11 |
| C 974 | 13 | 0.8 | 33 | 12 | A2796305 | A2796305 | 2M0049J22 |
| C 975 | 13 | 0.8 | 33 | 12 | A2840364 | A2840364 | 2M0136P14 |
| C 976 | 13 | 0.8 | 33 | 12 | TAs7702P | AL456791 | T. Bruce |
| C 977 | 13 | 0.8 | 34 | 9 | AA825349 | AA825349 | oe64d10.s |
| C 978 | 13 | 0.8 | 34 | 9 | AA910490 | AA910490 | ok44f07.s |
| C 979 | 13 | 0.8 | 34 | 9 | AA920912 | AA920912 | vy84f09.r |
| C 980 | 13 | 0.8 | 34 | 9 | AA9297265 | AA9297265 | o556a07.s |
| C 981 | 13 | 0.8 | 34 | 9 | AA967101 | AA967101 | ua40c08.r |
| C 982 | 13 | 0.8 | 34 | 9 | AI047923 | AI047923 | uh53h11.t |
| C 983 | 13 | 0.8 | 34 | 9 | AI112865 | AI112865 | qae6f02.s |
| C 984 | 13 | 0.8 | 34 | 9 | AI122147 | AI122147 | q993f02.x |
| C 985 | 13 | 0.8 | 34 | 9 | AI1287726 | AI1287726 | qui1h11.x |
| C 986 | 13 | 0.8 | 34 | 9 | AI1551509 | AI1551509 | vo54h02.x |
| C 987 | 13 | 0.8 | 34 | 9 | AI1584572 | AI1584572 | fb95f01.x |
| C 988 | 13 | 0.8 | 34 | 9 | AI610146 | AI610146 | ep13f01.x |
| C 989 | 13 | 0.8 | 34 | 9 | AI657872 | AI657872 | fc14f02.y |
| C 990 | 13 | 0.8 | 34 | 9 | AI971896 | AI971896 | wv29g12.x |
| C 991 | 13 | 0.8 | 34 | 9 | AA293547 | AA293547 | z154q12.s |
| C 992 | 13 | 0.8 | 34 | 10 | BG672874 | BG672874 | DRNAOBH.1 |
| C 993 | 13 | 0.8 | 34 | 10 | BI907729 | BI907729 | 603066519 |
| C 994 | 13 | 0.8 | 34 | 10 | BU000845 | BU000845 | Bu000845 |
| C 995 | 13 | 0.8 | 34 | 10 | BU066456 | BU066456 | Bu066456 |
| C 996 | 13 | 0.8 | 34 | 10 | H27080 | H27080 | y116c05.r.1 |
| C 997 | 13 | 0.8 | 34 | 10 | H38031 | H38031 | yp47e10.s.1 |
| C 998 | 13 | 0.8 | 34 | 10 | H43792 | H43792 | yo80e05.r1 |
| C 999 | 13 | 0.8 | 34 | 10 | R84508 | R84508 | yq24g03.r1 |
| C1000 | 13 | 0.8 | 34 | 10 | T66153 | T66153 | yc77e03.s.1 |

ALIGNMENTS

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    High quality sequence stop: 1.
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            /db_xref="GDB:574362"
            /db_xref="taxon:9606"
            /clone="IMAGE:160337"
            /clone_lib="Soares Breast 3nHBST"
            /sex="Female"
            /dev_stage="adult"
            /lab_host="DH10B (ampicillin resistant)"
            /note="Organ: breast; Vector: pT73D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGGAGCGGCCCTTTTTTTTTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of a modified pT73 vector (Pharmacia).
Library went through one round of normalization to a Cot
20. Library constructed by Bento Soares and W.Fatima
Bonaldo."
BASE COUNT      8 a      8 c      11 g      1 t
ORIGIN
Query Match      1.7%; Score 28; DB 10; Length 28;
Best Local Similarity 100.0%; Pred. No. 5e+04;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
0y      19 cgcctgtagctgctgctccaccctgctc 46
          |||||||
Db      28 cgcctgtagctgctgctccaccctgctc 1

```

| RESULT | ALIGNMENTS |
|------------|--|
| H22321/c | |
| LOCUS | |
| DEFINITION | 28 bp mRNA linear EST 06-JUL-1995 |
| ACCESSION | U313609.1 Soares breast 3NbHst Homo sapiens cDNA clone |
| VERSION | IMAGE:160337.5, similar to SP:RS5_RAT P24050 40S RIBOSOMAL PROTEIN |
| KEYWORDS | ;; mRNA sequence. |
| ORGANISM | H22321 |
| SOURCE | EST. |
| | H22321.1 GI:891016 |
| | human. |
| REFERENCE | Homo sapiens |
| AUTHORS | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 28) |
| | Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman 'M., Hulman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Kohlfing,T., Soares,M., Tan,F., Trevaskis,E., Watsonson 'R., Williamson,A., Woldmann,P. and Wilson,R. The Washu-Merck EST Project Unpublished (1995) Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@wustl.wustl.edu |
| TITLE | Insert Size: 798 |
| JOURNAL | High quality sequence starts: 1 |
| COMMENT | High quality sequence stops: 1 Source: IMAGE Consortium, LNLN This clone is available royalty-free through LNLN; contact the IMAGE Consortium (info@image.lnl.gov) for further information. Trace considered overall poor quality Possible reversed clone: similarity on wrong strand |

| | |
|-----------------|--|
| RESULT | 2 |
| AA69268/c | |
| LOCUS | |
| DEFINITION | AA69268 25 bp mRNA linear EST 15-AUG-1997 nc88a03.s1 NCI_CGAP_Pt1 Homo sapiens cDNA clone IMAGE:771724 |
| ACCESSION | |
| VERSION | |
| KEYWORDS | similar to SW:R85_HUMAN P46702 40S RIBOSOMAL PROTEIN S5. ;, mRNA sequence. |
| ORGANISM | Homo sapiens |
| SOURCE | EST. human. |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 25) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap . National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index Unpublished (1997) |
| JOURNAL COMMENT | Contact: Robert Strausberg, Ph.D. Email: cgaps-remail.nih.gov Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuqui, M.D. Michael Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: David B. Kitzman, Ph.D. cDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: www-bio.llnl.gov/bdnp/image/image.html Seq primer: -41m13 fwd, RT from Amer sham High quality sequence stop: 1. |
| FEATURES | |
| SOURCE | Location/Qualifiers 1..25 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:771724" /clone_lib="NCI_CGAP_Pt1" /sex="Male" |

/dev_stage="45 years old"
/lab_host="DH10B"
/note="Vector: PAMPI0; Site.1: NotI; Site.2: EcoRI; 1st strand cDNA was primed with oligo(dT)17 on 50 ng of DNase-treated, total cellular RNA obtained from 5,000-10,000 microdissected, histologically normal prostate epithelial cells. Double-stranded cDNA was ligated to EcoRI adaptors, 5 cycles of PCR applied to the cDNA with an adaptor-specific primer, and the resulting PCR product subcloned into PAMPI0 by the UDG-cloning method (Life Technologies). Average insert size is 600 bp. NOTE: Not directionally cloned. This library was constructed by David Kitzman."

BASE COUNT
ORIGIN
7 a 7 c 10 g 1 t

Query Match
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

19 cgcctgctcgtctgtccaccctg 43
|||||
25 cgcctgctcgtctgtccaccctg 1

RESULT 3
AZ799831/c 32 bp DNA linear GSS 16-FEB-2001
DEFINITION 2M0057G03R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
ACCESSION AZ799831
VERSION AZ799831.1 GI:12951342
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 32)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A. and Wright, D., Weis, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0057 row: G column: 03
Seq primer: CACACAGAAACAGCATGACC
Class: plasmid ends
High quality sequence stop: 32.

FEATURES
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0057G03"
/clone_1bp="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. COLI strain XL10-GOLD, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g114732114|gblAF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN
9 a 9 c 5 g 9 t

Query Match
Best Local Similarity 100.0%; Pred. No. 3.5e+05;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0y 602 aaagatcacccagaggggtcgtgta 625
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Db 27 AAAGTATCACCAGAGGCTGTGTA 4

RESULT 4
A1021154/c 31 bp mRNA linear EST 16-JUN-1998
LOCUS A1021154
DEFINITION ub02c03.f1 Soares,mammary.gland_NbMKG Mus musculus cDNA clone
IMAGE:1365796 5' similar to TR:P97461 P97461 RIBOSOMAL PROTEIN S5.
; mRNA sequence.
ACCESSION A1021154
VERSION A1021154.1 GI:3235490
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 31)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.
The WashU-HMNI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HMNI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1800
Email: mouseest@wustl.edu
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:899016
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 1.

FEATURES
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/clone_1bp="Soares,mammary.gland_NbMKG"
/sex="male"
/tissue_type="mammary gland"
/dev_stage="4 weeks"
/lab_host="DH10B"

/note="Organ: mammary gland; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - o1igo(dT) primer [5']
TGTTCACATCTGAAGTGGAGCGCCGCGATGGTTTTTTTTTTTTTTTTTTT
T 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M.Fatima Bonaldo."

BASE COUNT 8 a 8 c 12 g 3 t

ORIGIN

Query Match 1.3%; Score 21; DB 9; Length 31;
Best Local Similarity 82.8%; Pred. No. 1.5e+06;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

18 ccgctggtgctgctgtcctccactcgtc 46
||||||| ||| ||||| |||
29 CCGCTGTGCTGCTGCTCCACTCAGTC 1

RESULT 5
AA245520 31 bp mRNA linear EST 10-MAR-1997
LOCUS my50d02.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA
DEFINITION clone IMAGE:699267 5' similar to SW:RS5_RAT P24050 40S RIBOSOMAL
PROTEIN S5., mRNA sequence.

ACCESSION AA245520
VERSION AA245520.1 GI:1876306

KEYWORDS house mouse.
SOURCE EST.

ORGANISM Mus musculus

REFERENCE Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 31)
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.

TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT Contact: Maria M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810

Email: mouseest@wustl.wustl.edu
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:432827

Trace considered overall poor quality
Possible reversed clone; similarity on wrong strand
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 1.

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/sex="mixed"
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/dev_stage="17 day"
/lab_host="DH10B"
/note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site_1: EcoRI; Site_2: NotI; 1st strand cDNA was primed with a Not I - o1igo(dT) primer [5']

TGTTACGATCTGAAGTGGAGCGCCGCGATGGTTTTTTTTTTTTTTTTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors [GTGGATTCGCTACCT], digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library constructed by Bob Barstead."

BASE COUNT 8 a 8 c 12 g 3 t

ORIGIN

Query Match 1.3%; Score 21; DB 9; Length 31;
Best Local Similarity 82.8%; Pred. No. 1.5e+06;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

18 ccgctggtgctgctgtcctccactcgtc 46
||||||| ||| ||||| |||
29 CCGCTGTGCTGCTGCTCCACTCAGTC 1

RESULT 6
T60615 35 bp mRNA linear EST 13-FEB-1995
LOCUS yb95a04.r1 Stratiagene liver (#937224) Homo sapiens cDNA clone
DEFINITION IMAGE:78894 5' similar to gb:X63432_cds1 ACTIN, CYTOPLASMIC 1 (HUMAN);, mRNA sequence.

ACCESSION T60615
VERSION T60615.1 GI:663652

KEYWORDS human.
SOURCE EST.

ORGANISM Homo sapiens

REFERENCE Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 35)
AUTHORS Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B., Chisoe, S., Dietrich, N., Dubuque, T., Favello, A., Gish, M., Hawkins, B., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Marais, E., Moore, M., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Weg, J., Trevisan, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M. Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
97044478

TITLE Contact: Wilson RK
JOURNAL Washington University School of Medicine
MEDLINE 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
COMMENT Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.wustl.edu

Insert Size: 1759
High quality sequence starts: 1 High quality sequence stops: 1
Source: IMAGE Consortium, LNL This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Trace considered overall poor quality
Insert length: 1759 Std Error: 0.00
Seq primer: M13Rpr1
High quality sequence stop: 1.

FEATURES

1..35
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="GDB:498639"
/db_xref="taxon:9606"
/clone="IMAGE:78894"
/clone_lib="Stratiagene liver (#937224)"
/sex="male"
/dev_stage="49 years old"
/lab_host="SOLR cells (kanamycin resistant)"
/note="Organ: liver; Vector: pBluescript SK; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dT. Hepatectomy from normal male caucasian. Average insert size: 1.1 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATCGGACAG 3' -3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT 3' "

BASE COUNT 12 a 6 c 9 g 6 t 2 others

ORIGIN

| | |
|-----------|--|
| SOURCE | house mouse. |
| ORGANISM | Mus musculus |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 31) |
| AUTHORS | Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Gelsel,S., Kucab,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wyllie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R. |
| TITLE | The Mashu-HHMI Mouse EST Project |
| JOURNAL | Unpublished (1996) |
| COMMENT | Contact: Marra M/Mouse EST Project Washu-HHMI Mouse EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:568140 Trice considered overall poor quality Possible reversed clone; similarity on wrong strand Seq primer: -28m13 rev2 ET from Amersham High quality sequence stop: 1. Location/Qualifiers 1..31 |
| FEATURES | |
| SOURCE | |

| Query Match | Best Local Similarity | Matches | Conservative | Mismatches | Indels | Gaps |
|-------------|--|---------------------------------|--------------|------------|--------|------|
| Qy | 18 | ccgcctgctgctgctgctccacatcgcgctc | 46 | | | |
| Db | 29 | ccgcctgctgctgctgctccacatcgcgctc | 46 | | | |
| RESULT 10 | Az412411/c | | | | | |
| LOCUS | Az412411 | | | | | |
| DEFINITION | 1M0185A23R Mouse 10kb plasmid U0GC1M library Mus musculus genomic clone U0GC1M0185A23 R, DNA sequence. | | | | | |
| ACCESSION | Az412411 | | | | | |
| VERSION | Az412411.1 | | | | | |
| KEYWORDS | GI:10536424 | | | | | |
| SOURCE | house mouse. | | | | | |
| ORGANISM | Mus musculus | | | | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | | | | |
| AUTHORS | Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., | | | | | |

| TITLE | JOURNAL | COMMENT |
|--|--|---------|
| Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts | Unpublished (2000) | |
| Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly , M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R. | Contact: Robert B. Weiss University of Utah University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA | |
| | Tel: 801 585 5606 Fax: 801 585 7177 | |
| | Email: ddumegenetics.utah.edu | |
| | Insert Length: 10000 Std Error: 0.00 | |
| | Plate: 0185 row: A column: 23 | |
| | Seq primer: CACACAGCAAAACACCTATGACC | |
| | Class: plasmid ends | |
| | High quality sequence stop: 29. | |
| FEATURES | location/Qualifiers | |
| SOURCE | 1..29 | |

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BASE COUNT
ORIGIN
4 a
10 c
8 g
7 t

/origins:slr-mus musculus
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0185A23"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMDA2 (gii1473211419b1A129072.1) a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

| Query Match | 1.1% | Score 18 | DB 12 | Length 29 |
|-----------------------|---|------------------------|--------------|------------------------------|
| Best Local Similarity | 80.8% | Pred. No. 6e+06 | | |
| Matches 21 | Conservative | 0 | Mismatches 5 | Indels 0 |
| QY 1269 | gacgccaaccctgagagatgcga | 1294 | | |
| | | | | |
| Db 26 | GACCCATCCCTGGGGAGTGCACA | 1 | | |
| RESULT 11 | | | | |
| LOCUS | 31 bp | mrna | linear | EST 27-MAR-2001 |
| DEFINITION | BC494208 | 602541536p1 NIH_MGC_59 | Homo sapiens | CDNA clone IMAGE:4672545 5', |
| | | | | mrna sequence. |
| ACCESSION | BC494208 | | | |
| VERSION | BC494208.1 | GI:13455722 | | |
| KEYWORDS | EST. | | | |
| SOURCE | human. | | | |
| ORGANISM | Homo sapiens | | | |
| | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | | |
| | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | | |
| REFERENCE | 1 (bases 1 to 31) | | | |

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 02:42:58 ; Search time 1922.39 seconds
(Without alignments)
217.714 Million cell updates/sec

Title: US-09-817-538-18

Perfect score: 20

Sequence: 1 ggaagccagagctgagagag 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 843946

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 1000 summaries

GenEmbl:*

1: gb_ba:*

2: gb_htg:*

3: gb_in:*

4: gb_cm:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_vl:*

15: em_ba:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_or:*

21: em_ov:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_sts:*

28: em_un:*

29: em_vl:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_inv:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Query | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|----|----|-------------|
|------------|-------|-------|-------|--------|----|----|-------------|

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| 2 | 14.4 | 72.0 | 14.4 | 72.0 | 48 | 6 | AR099166 | AR099166 Sequence |
| 3 | 14 | 70.0 | 14 | 70.0 | 32 | 6 | I28179 | I28179 Sequence 22 |
| 4 | 13.8 | 69.0 | 13.8 | 69.0 | 38 | 6 | AR057940 | AR057940 Sequence |
| 5 | 13.8 | 69.0 | 13.8 | 69.0 | 38 | 6 | AR115698 | AR115698 Sequence |
| 6 | 13.8 | 69.0 | 13.8 | 69.0 | 44 | 6 | AR063762 | AR063762 Sequence |
| 7 | 13.8 | 69.0 | 13.8 | 69.0 | 44 | 6 | I30125 | I30125 Sequence 47 |
| 8 | 13.6 | 68.0 | 13.6 | 68.0 | 51 | 6 | AX162651 | AX162651 Sequence |
| 9 | 13.6 | 68.0 | 13.6 | 68.0 | 51 | 6 | AX162652 | AX162652 Sequence |
| 10 | 13.6 | 68.0 | 13.6 | 68.0 | 51 | 6 | I09549 | I09549 Sequence 4 |
| 11 | 13.6 | 68.0 | 13.6 | 68.0 | 65 | 6 | I09548 | I09548 Sequence 3 |
| 12 | 13.6 | 68.0 | 13.6 | 68.0 | 82 | 9 | AF461188S2 | AF461188 Homo sapi |
| 13 | 13.4 | 67.0 | 13.4 | 67.0 | 21 | 6 | AX020690 | AX020690 Sequence |
| 14 | 13.4 | 67.0 | 13.4 | 67.0 | 31 | 6 | AX248940 | AX248940 Sequence |
| 15 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I24547 | I24547 Sequence 27 |
| 16 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I24548 | I24548 Sequence 28 |
| 17 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I33889 | I33889 Sequence 28 |
| 18 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I33890 | I33890 Sequence 29 |
| 19 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I83680 | I83680 Sequence 9 |
| 20 | 13.4 | 67.0 | 13.4 | 67.0 | 56 | 6 | I83681 | I83681 Sequence 11 |
| 21 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462868 | AF462868 Hepatitis |
| 22 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462869 | AF462869 Hepatitis |
| 23 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462870 | AF462870 Hepatitis |
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| 26 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462899 | AF462899 Hepatitis |
| 27 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462900 | AF462900 Hepatitis |
| 28 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462901 | AF462901 Hepatitis |
| 29 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462902 | AF462902 Hepatitis |
| 30 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462903 | AF462903 Hepatitis |
| 31 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462904 | AF462904 Hepatitis |
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| 38 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462911 | AF462911 Hepatitis |
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| 45 | 13.4 | 67.0 | 13.4 | 67.0 | 81 | 14 | AF462918 | AF462918 Hepatitis |
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| 50 | 13.2 | 66.0 | 13.2 | 66.0 | 51 | 6 | AX160710 | AX160710 Sequence |
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| 52 | 13.2 | 66.0 | 13.2 | 66.0 | 21 | 6 | AX096403 | AX096403 Sequence |
| 53 | 13 | 65.0 | 13 | 65.0 | 21 | 6 | AX348015 | AX348015 Sequence |
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| 56 | 13 | 65.0 | 13 | 65.0 | 47 | 6 | AR032536 | AR032536 Sequence |
| 57 | 13 | 65.0 | 13 | 65.0 | 47 | 6 | I29276 | I29276 Sequence 14 |
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| 60 | 13 | 65.0 | 13 | 65.0 | 50 | 6 | I29580 | I29580 Sequence 45 |
| 61 | 13 | 65.0 | 13 | 65.0 | 50 | 6 | I91254 | I91254 Sequence 45 |
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| 65 | 13 | 65.0 | 13 | 65.0 | 87 | 9 | AB004685I2 | AB004685 Homo sapi |
| 66 | 13 | 65.0 | 13 | 65.0 | 87 | 9 | HSXARRES01 | HSXARRES01 |
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| 68 | 12.8 | 64.0 | 12.8 | 64.0 | 25 | 6 | AR176083 | AR176083 Sequence |
| 69 | 12.8 | 64.0 | 12.8 | 64.0 | 25 | 6 | AR176084 | AR176084 Sequence |
| 70 | 12.8 | 64.0 | 12.8 | 64.0 | 33 | 6 | AX033415 | AX033415 Sequence |
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| 72 | 12.8 | 64.0 | 12.8 | 64.0 | 36 | 6 | AR057102 | AR057102 Sequence |
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|-----|------|------|-----|----|------------|---------------------|-------|------|------|----|----|-----------|-----------|--------------|
| 74 | 12.8 | 64.0 | 36 | 6 | AR114860 | Sequence | c 147 | 12.2 | 61.0 | 51 | 6 | AX199356 | AX199356 | Sequence |
| 75 | 12.8 | 64.0 | 50 | 6 | AX233371 | Sequence | 148 | 12.2 | 61.0 | 51 | 6 | AX203947 | AX203947 | Sequence |
| 76 | 12.8 | 64.0 | 51 | 6 | AX156890 | Sequence | 149 | 12.2 | 61.0 | 51 | 6 | AX203954 | AX203954 | Sequence |
| 77 | 12.8 | 64.0 | 50 | 6 | S82045 | Ig Vh-Immun | c 150 | 12.2 | 61.0 | 51 | 6 | AX204032 | AX204032 | Sequence |
| 78 | 12.8 | 64.0 | 70 | 6 | AX233502 | Sequence | c 151 | 12.2 | 61.0 | 51 | 6 | AX306569 | AX306569 | Sequence |
| 79 | 12.8 | 64.0 | 84 | 10 | MMU043559 | AX403859 M.musculu | 152 | 12.2 | 61.0 | 51 | 6 | BD007159 | BD007159 | Improved |
| 80 | 12.6 | 63.0 | 20 | 6 | A96975 | Sequence 53 | c 153 | 12.2 | 61.0 | 52 | 9 | HSAD02528 | HSAD02528 | |
| 81 | 12.6 | 63.0 | 21 | 12 | ASE011867 | Artificia | c 154 | 12.2 | 61.0 | 57 | 6 | A95590 | A95590 | Sequence 5 |
| 82 | 12.6 | 63.0 | 24 | 6 | AX166644 | Sequence | c 155 | 12.2 | 61.0 | 57 | 6 | AX306605 | AX306605 | Sequence |
| 83 | 12.6 | 63.0 | 34 | 6 | AR091705 | Sequence | c 156 | 12.2 | 61.0 | 59 | 6 | AR105686 | AR105686 | Sequence |
| 84 | 12.6 | 63.0 | 35 | 6 | AX300685 | Sequence | c 157 | 12.2 | 61.0 | 59 | 6 | AX011325 | AX011325 | Sequence |
| 85 | 12.6 | 63.0 | 36 | 6 | AR116946 | Sequence | c 158 | 12.2 | 61.0 | 59 | 6 | AX306568 | AX306568 | Sequence |
| 86 | 12.6 | 63.0 | 45 | 10 | MMU232749 | AX1232749 Mus muscu | c 159 | 12.2 | 61.0 | 63 | 6 | AX306604 | AX306604 | Sequence |
| 87 | 12.6 | 63.0 | 47 | 6 | A42885 | Sequence 17 | c 160 | 12.2 | 61.0 | 73 | 6 | AR035230 | AR035230 | Sequence |
| 88 | 12.6 | 63.0 | 47 | 6 | AR081526 | Sequence | c 161 | 12.2 | 61.0 | 77 | 6 | AR035229 | AR035229 | Sequence |
| 89 | 12.6 | 63.0 | 50 | 6 | E03595 | E03595 A primer fo | c 162 | 12.2 | 61.0 | 77 | 6 | AR035231 | AR035231 | Sequence |
| 90 | 12.6 | 63.0 | 50 | 6 | E04182 | E04182 single stra | c 163 | 12.2 | 61.0 | 78 | 6 | A11449 | A11449 | Nucleotide |
| 91 | 12.6 | 63.0 | 51 | 6 | AR119933 | Sequence | c 164 | 12.2 | 61.0 | 78 | 6 | A11450 | A11450 | Nucleotide |
| 92 | 12.6 | 63.0 | 51 | 6 | AX116257 | Sequence | c 165 | 12.2 | 61.0 | 81 | 14 | AF207357 | AF207357 | Hepatitis |
| 93 | 12.6 | 63.0 | 51 | 6 | AX153817 | Sequence | c 166 | 12.2 | 61.0 | 81 | 14 | AF207362 | AF207362 | Hepatitis |
| 94 | 12.6 | 63.0 | 52 | 6 | E04183 | E04183 single stra | c 167 | 12.2 | 61.0 | 98 | 6 | AR003812 | AR003812 | Sequence |
| 95 | 12.6 | 63.0 | 58 | 6 | AR119929 | Sequence | c 168 | 12.2 | 61.0 | 98 | 6 | AR010148 | AR010148 | Sequence |
| 96 | 12.6 | 63.0 | 61 | 6 | A38555 | A38555 Sequence 15 | c 169 | 12.2 | 61.0 | 98 | 6 | AR034664 | AR034664 | Sequence |
| 97 | 12.6 | 63.0 | 74 | 6 | AX282809 | Sequence | c 170 | 12.2 | 61.0 | 98 | 6 | AR048549 | AR048549 | Sequence |
| 98 | 12.6 | 63.0 | 74 | 9 | HS1153N | X96634 H.sapiens m | c 171 | 12.2 | 61.0 | 98 | 6 | AR053554 | AR053554 | Sequence |
| 99 | 12.6 | 63.0 | 78 | 9 | AF043796 | Homo sapi | c 172 | 12.2 | 61.0 | 98 | 6 | AR141283 | AR141283 | Sequence |
| 100 | 12.6 | 63.0 | 79 | 10 | MMSN039NM | Z69627 M.musculu | c 173 | 12.2 | 61.0 | 98 | 6 | AR141520 | AR141520 | Sequence |
| 101 | 12.6 | 63.0 | 80 | 9 | HSN039HU | E31009 Method for | c 174 | 12.2 | 61.0 | 98 | 6 | AX083535 | AX083535 | Sequence |
| 102 | 12.6 | 63.0 | 83 | 6 | E31009 | AX003075 Sequence | c 175 | 12.2 | 61.0 | 98 | 6 | I40565 | I40565 | Sequence 11 |
| 103 | 12.6 | 63.0 | 84 | 6 | AX008790 | Equus cab | c 176 | 12.2 | 60.0 | 20 | 6 | AX296045 | AX296045 | Sequence |
| 104 | 12.6 | 63.0 | 86 | 4 | AY008790 | X97586 M.musculu | c 177 | 12.2 | 60.0 | 22 | 6 | AR080205 | AR080205 | Sequence |
| 105 | 12.6 | 63.0 | 86 | 10 | MMU039SNRN | AR081502 Sequence | c 178 | 12.2 | 60.0 | 24 | 6 | AR098337 | AR098337 | Sequence |
| 106 | 12.6 | 63.0 | 87 | 6 | AR081502 | Sequence | c 179 | 12.2 | 60.0 | 24 | 6 | AR138273 | AR138273 | Sequence |
| 107 | 12.6 | 63.0 | 96 | 10 | AF041898 | AF041898 Mus muscu | c 180 | 12.2 | 60.0 | 24 | 6 | BD007068 | BD007068 | Placental |
| 108 | 12.6 | 63.0 | 97 | 8 | AF372984 | AF372984 Pneumocys | c 181 | 12.2 | 60.0 | 26 | 6 | BD005983 | BD005983 | Galectin |
| 109 | 12.6 | 63.0 | 100 | 9 | AF78139 | AJ008139 Homo sapi | c 182 | 12.2 | 60.0 | 26 | 6 | BD005990 | BD005990 | Galectin |
| 110 | 12.4 | 62.0 | 21 | 6 | h91524 | A91524 Sequence 51 | c 183 | 12.2 | 60.0 | 28 | 6 | A31916 | A31916 | Synthetic h |
| 111 | 12.4 | 62.0 | 30 | 6 | AR032754 | AR032754 Sequence | c 184 | 12.2 | 60.0 | 28 | 6 | AX180862 | AX180862 | Sequence |
| 112 | 12.4 | 62.0 | 50 | 6 | AX156689 | Sequence | c 185 | 12.2 | 60.0 | 31 | 6 | AX028887 | AX028887 | Sequence |
| 113 | 12.4 | 62.0 | 50 | 6 | I29494 | I29494 Sequence 36 | c 186 | 12.2 | 60.0 | 32 | 6 | AX207944 | AX207944 | Sequence |
| 114 | 12.4 | 62.0 | 50 | 6 | I91168 | I91168 Sequence 36 | c 187 | 12.2 | 60.0 | 33 | 6 | AX033433 | AX033433 | Sequence |
| 115 | 12.4 | 62.0 | 51 | 6 | AX164899 | Sequence | c 188 | 12.2 | 60.0 | 33 | 6 | AX033443 | AX033443 | Sequence |
| 116 | 12.4 | 62.0 | 62 | 9 | HSMAp12 | U34064 Human micro | c 189 | 12.2 | 60.0 | 40 | 6 | AX180800 | AX180800 | Sequence |
| 117 | 12.4 | 62.0 | 70 | 6 | AX233562 | AX233562 Sequence | c 190 | 12.2 | 60.0 | 45 | 6 | AR075913 | AR075913 | Sequence |
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| 120 | 12.2 | 61.0 | 20 | 6 | AX297349 | AX297349 Sequence | c 193 | 12.2 | 60.0 | 45 | 6 | I20782 | I20782 | Sequence 6 |
| 121 | 12.2 | 61.0 | 23 | 6 | AX046199 | AX046199 Sequence | c 194 | 12.2 | 60.0 | 46 | 6 | BD004414 | BD004414 | Ameliorat |
| 122 | 12.2 | 61.0 | 24 | 6 | AX292716 | AX292716 Sequence | c 195 | 12.2 | 60.0 | 46 | 6 | BD004470 | BD004470 | Therapeut |
| 123 | 12.2 | 61.0 | 27 | 6 | AX022036 | AX022036 Sequence | c 196 | 12.2 | 60.0 | 46 | 6 | BD004531 | BD004531 | Therapeut |
| 124 | 12.2 | 61.0 | 29 | 6 | AR099192 | AR099192 Sequence | c 197 | 12.2 | 60.0 | 46 | 6 | BD008364 | BD008364 | Inhibitin |
| 125 | 12.2 | 61.0 | 30 | 6 | A42576 | A42576 Sequence 93 | c 198 | 12.2 | 60.0 | 46 | 6 | E23334 | E23334 | Antibody ag |
| 126 | 12.2 | 61.0 | 30 | 6 | A88765 | A88765 Sequence 91 | c 199 | 12.2 | 60.0 | 46 | 6 | E27103 | E27103 | Remedy for |
| 127 | 12.2 | 61.0 | 31 | 6 | I16018 | I16018 Sequence 21 | c 200 | 12.2 | 60.0 | 50 | 6 | A05107 | A05107 | Synthetic b |
| 128 | 12.2 | 61.0 | 32 | 6 | AX057964 | AX057964 Sequence | c 201 | 12.2 | 60.0 | 50 | 6 | AX076918 | AX076918 | Sequence |
| 129 | 12.2 | 61.0 | 38 | 6 | AX218401 | AX218401 Sequence | c 202 | 12.2 | 60.0 | 50 | 6 | AX098266 | AX098266 | Sequence |
| 130 | 12.2 | 61.0 | 38 | 6 | AX218434 | AX218434 Sequence | c 203 | 12.2 | 60.0 | 50 | 6 | AX159834 | AX159834 | Sequence |
| 131 | 12.2 | 61.0 | 38 | 6 | AX227962 | AX227962 Sequence | c 204 | 12.2 | 60.0 | 50 | 6 | AX159836 | AX159836 | Sequence |
| 132 | 12.2 | 61.0 | 39 | 6 | AR122091 | AR122091 Sequence | c 205 | 12.2 | 60.0 | 50 | 6 | AX160350 | AX160350 | Sequence |
| 133 | 12.2 | 61.0 | 42 | 6 | AX150203 | AX150203 Sequence | c 206 | 12.2 | 60.0 | 50 | 6 | AX160352 | AX160352 | Sequence |
| 134 | 12.2 | 61.0 | 48 | 6 | AR122101 | AR122101 Sequence | c 207 | 12.2 | 60.0 | 50 | 6 | AX161712 | AX161712 | Sequence |
| 135 | 12.2 | 61.0 | 48 | 6 | AR122104 | AR122104 Sequence | c 208 | 12.2 | 60.0 | 50 | 6 | AX162623 | AX162623 | Sequence |
| 136 | 12.2 | 61.0 | 50 | 11 | G54707 | G54707 A1f5T50001 | c 209 | 12.2 | 60.0 | 51 | 6 | AX160349 | AX160349 | Sequence |
| 137 | 12.2 | 61.0 | 51 | 6 | AR105687 | AR105687 Sequence | c 210 | 12.2 | 60.0 | 51 | 6 | AX160351 | AX160351 | Sequence |
| 138 | 12.2 | 61.0 | 51 | 6 | AR149808 | AR149808 Sequence | c 211 | 12.2 | 60.0 | 51 | 6 | AX162624 | AX162624 | Sequence |
| 139 | 12.2 | 61.0 | 51 | 6 | AX157584 | AX157584 Sequence | c 212 | 12.2 | 60.0 | 51 | 6 | AX199080 | AX199080 | Sequence |
| 140 | 12.2 | 61.0 | 51 | 6 | AX159156 | AX159156 Sequence | c 213 | 12.2 | 60.0 | 52 | 6 | A14817 | A14817 | Nucleotide |
| 141 | 12.2 | 61.0 | 51 | 6 | AX160689 | AX160689 Sequence | c 214 | 12.2 | 60.0 | 58 | 6 | A05106 | A05106 | Nucleotide b |
| 142 | 12.2 | 61.0 | 51 | 6 | AX161021 | AX161021 Sequence | c 215 | 12.2 | 60.0 | 61 | 9 | S59942 | S59942 | TAL1d1-prot |
| 143 | 12.2 | 61.0 | 51 | 6 | AX161022 | AX161022 Sequence | c 216 | 12.2 | 60.0 | 64 | 6 | I05720 | I05720 | Sequence 8 |
| 144 | 12.2 | 61.0 | 51 | 6 | AX165197 | AX165197 Sequence | c 217 | 12.2 | 60.0 | 66 | 6 | AR052213 | AR052213 | Sequence |
| 145 | 12.2 | 61.0 | 51 | 6 | AX165245 | AX165245 Sequence | c 218 | 12.2 | 60.0 | 69 | 6 | AR052215 | AR052215 | Sequence |
| 146 | 12.2 | 61.0 | 51 | 6 | AX199355 | AX199355 Sequence | c 219 | 12.2 | 60.0 | 73 | 10 | S71227 | S71227 | orf 3' of N |

| | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|-------|------|------|-----|----|----------|---------------------|
| C 220 | 12 | 60.0 | 75 | 10 | S44194 | C 293 | 11.8 | 59.0 | 61 | 6 | AR171638 | AR171638 Sequence |
| C 221 | 12 | 60.0 | 77 | 6 | AX229856 | 294 | 11.8 | 59.0 | 79 | 10 | MUSCBA04 | D12554 Mus spretus |
| C 222 | 12 | 60.0 | 84 | 6 | AR052216 | 295 | 59.0 | 59.0 | 10 | 10 | S60502 | S60502 Cytoskoleta |
| C 223 | 12 | 60.0 | 84 | 6 | AX060795 | 296 | 11.8 | 59.0 | 81 | 3 | AF363236 | AF363236 Nephasoma |
| C 224 | 12 | 60.0 | 84 | 6 | AX060804 | C 297 | 11.8 | 59.0 | 81 | 14 | AF462871 | AF462871 Hepatitis |
| C 225 | 12 | 60.0 | 87 | 6 | AR052218 | C 298 | 11.8 | 59.0 | 81 | 14 | AF462872 | AF462872 Hepatitis |
| C 226 | 12 | 60.0 | 89 | 6 | AR171466 | C 299 | 11.8 | 59.0 | 81 | 14 | AF462873 | AF462873 Hepatitis |
| C 227 | 12 | 60.0 | 89 | 6 | AR171637 | C 300 | 11.8 | 59.0 | 81 | 14 | AF462874 | AF462874 Hepatitis |
| C 228 | 12 | 60.0 | 90 | 6 | HUMCYBA1 | C 301 | 11.8 | 59.0 | 81 | 14 | AF462875 | AF462875 Hepatitis |
| C 229 | 12 | 60.0 | 96 | 6 | AR107476 | C 302 | 11.8 | 59.0 | 81 | 14 | AF462876 | AF462876 Hepatitis |
| C 230 | 12 | 60.0 | 96 | 6 | AR107480 | C 303 | 11.8 | 59.0 | 81 | 14 | AF462877 | AF462877 Hepatitis |
| C 231 | 12 | 60.0 | 96 | 6 | E05301 | C 304 | 11.8 | 59.0 | 81 | 14 | AF462878 | AF462878 Hepatitis |
| C 232 | 12 | 60.0 | 99 | 14 | HCY228355 | C 305 | 11.8 | 59.0 | 81 | 14 | AF462879 | AF462879 Hepatitis |
| C 233 | 12 | 60.0 | 99 | 14 | HCY228364 | C 306 | 11.8 | 59.0 | 81 | 14 | AF462880 | AF462880 Hepatitis |
| C 234 | 12 | 60.0 | 99 | 14 | HCY228366 | C 307 | 11.8 | 59.0 | 81 | 14 | AF462881 | AF462881 Hepatitis |
| C 235 | 12 | 60.0 | 99 | 14 | HCY228376 | C 308 | 11.8 | 59.0 | 81 | 14 | AF462882 | AF462882 Hepatitis |
| C 236 | 12 | 60.0 | 99 | 14 | HCY228377 | C 309 | 11.8 | 59.0 | 81 | 14 | AF462883 | AF462883 Hepatitis |
| C 237 | 12 | 60.0 | 99 | 14 | HCY228381 | C 310 | 11.8 | 59.0 | 81 | 14 | AF462884 | AF462884 Hepatitis |
| C 238 | 11.8 | 59.0 | 18 | 6 | AR154173 | C 311 | 11.8 | 59.0 | 81 | 14 | AF462885 | AF462885 Hepatitis |
| C 239 | 11.8 | 59.0 | 18 | 6 | AR175500 | C 312 | 11.8 | 59.0 | 81 | 14 | AF462886 | AF462886 Hepatitis |
| C 240 | 11.8 | 59.0 | 20 | 6 | AR162405 | C 313 | 11.8 | 59.0 | 81 | 14 | AF462887 | AF462887 Hepatitis |
| C 241 | 11.8 | 59.0 | 20 | 6 | I24518 | C 314 | 11.8 | 59.0 | 81 | 14 | AF462888 | AF462888 Hepatitis |
| C 242 | 11.8 | 59.0 | 22 | 6 | A22025 | C 315 | 11.8 | 59.0 | 81 | 14 | AF462889 | AF462889 Hepatitis |
| C 243 | 11.8 | 59.0 | 22 | 6 | I21430 | C 316 | 11.8 | 59.0 | 81 | 14 | AF462890 | AF462890 Hepatitis |
| C 244 | 11.8 | 59.0 | 24 | 6 | AR091180 | C 317 | 11.8 | 59.0 | 81 | 14 | AF462891 | AF462891 Hepatitis |
| C 245 | 11.8 | 59.0 | 24 | 6 | AR093406 | C 318 | 11.8 | 59.0 | 81 | 14 | AF462892 | AF462892 Hepatitis |
| C 246 | 11.8 | 59.0 | 24 | 6 | AR117871 | C 319 | 11.8 | 59.0 | 81 | 14 | AF462893 | AF462893 Hepatitis |
| C 247 | 11.8 | 59.0 | 24 | 6 | AR172153 | C 320 | 11.8 | 59.0 | 81 | 14 | AF462894 | AF462894 Hepatitis |
| C 248 | 11.8 | 59.0 | 24 | 6 | BD000251 | C 321 | 11.8 | 59.0 | 81 | 14 | AF462895 | AF462895 Hepatitis |
| C 249 | 11.8 | 59.0 | 24 | 6 | BD000359 | C 322 | 11.8 | 59.0 | 81 | 14 | AF462896 | AF462896 Hepatitis |
| C 250 | 11.8 | 59.0 | 24 | 6 | BD000795 | C 323 | 11.8 | 59.0 | 81 | 14 | AF462900 | AF462900 Hepatitis |
| C 251 | 11.8 | 59.0 | 24 | 6 | E30931 | C 324 | 11.8 | 59.0 | 81 | 14 | AF462921 | AF462921 Hepatitis |
| C 252 | 11.8 | 59.0 | 25 | 6 | AX006422 | C 325 | 11.8 | 59.0 | 81 | 14 | AF462922 | AF462922 Hepatitis |
| C 253 | 11.8 | 59.0 | 25 | 6 | AR110505 | C 326 | 11.8 | 59.0 | 81 | 14 | AF462923 | AF462923 Hepatitis |
| C 254 | 11.8 | 59.0 | 26 | 6 | AR137038 | C 327 | 11.8 | 59.0 | 81 | 14 | AF462924 | AF462924 Hepatitis |
| C 255 | 11.8 | 59.0 | 27 | 6 | AR090125 | C 328 | 11.8 | 59.0 | 81 | 14 | AF462925 | AF462925 Hepatitis |
| C 256 | 11.8 | 59.0 | 27 | 6 | AX056700 | C 329 | 11.8 | 59.0 | 81 | 14 | AF462926 | AF462926 Hepatitis |
| C 257 | 11.8 | 59.0 | 28 | 6 | AR000518 | C 330 | 11.8 | 59.0 | 81 | 14 | AF462927 | AF462927 Hepatitis |
| C 258 | 11.8 | 59.0 | 29 | 6 | AX008197 | C 331 | 11.8 | 59.0 | 81 | 14 | AF462928 | AF462928 Hepatitis |
| C 259 | 11.8 | 59.0 | 30 | 6 | AR037992 | C 332 | 11.8 | 59.0 | 81 | 14 | AF462929 | AF462929 Hepatitis |
| C 260 | 11.8 | 59.0 | 30 | 6 | AR054415 | C 333 | 11.8 | 59.0 | 81 | 14 | AF462930 | AF462930 Hepatitis |
| C 261 | 11.8 | 59.0 | 30 | 6 | AR091722 | C 334 | 11.8 | 59.0 | 81 | 14 | AF462931 | AF462931 Hepatitis |
| C 262 | 11.8 | 59.0 | 30 | 6 | AR093866 | C 335 | 11.8 | 59.0 | 81 | 14 | AF462932 | AF462932 Hepatitis |
| C 263 | 11.8 | 59.0 | 30 | 6 | AR131293 | C 336 | 11.8 | 59.0 | 81 | 14 | AF462933 | AF462933 Hepatitis |
| C 264 | 11.8 | 59.0 | 30 | 6 | E58805 | C 337 | 11.8 | 59.0 | 81 | 14 | AF462934 | AF462934 Hepatitis |
| C 265 | 11.8 | 59.0 | 30 | 6 | I23493 | C 338 | 11.8 | 59.0 | 81 | 14 | AF462935 | AF462935 Hepatitis |
| C 266 | 11.8 | 59.0 | 30 | 6 | I33847 | C 339 | 11.8 | 59.0 | 81 | 14 | AF462936 | AF462936 Hepatitis |
| C 267 | 11.8 | 59.0 | 31 | 6 | I36295 | C 340 | 11.8 | 59.0 | 81 | 14 | AF462937 | AF462937 Hepatitis |
| C 268 | 11.8 | 59.0 | 31 | 6 | A84897 | C 341 | 11.8 | 59.0 | 81 | 14 | AF462938 | AF462938 Hepatitis |
| C 269 | 11.8 | 59.0 | 31 | 6 | AX248336 | C 342 | 11.8 | 59.0 | 81 | 14 | AF462939 | AF462939 Hepatitis |
| C 270 | 11.8 | 59.0 | 31 | 6 | AX248336 | C 343 | 11.8 | 59.0 | 81 | 14 | AF462940 | AF462940 Hepatitis |
| C 271 | 11.8 | 59.0 | 31 | 6 | AX248454 | C 344 | 11.8 | 59.0 | 81 | 14 | AF462941 | AF462941 Hepatitis |
| C 272 | 11.8 | 59.0 | 31 | 6 | AX248788 | C 345 | 11.8 | 59.0 | 81 | 14 | AF462942 | AF462942 Hepatitis |
| C 273 | 11.8 | 59.0 | 36 | 6 | AX249399 | C 346 | 11.8 | 59.0 | 81 | 14 | AF462943 | AF462943 Hepatitis |
| C 274 | 11.8 | 59.0 | 38 | 6 | AX218367 | C 347 | 11.8 | 59.0 | 81 | 14 | AF462944 | AF462944 Hepatitis |
| C 275 | 11.8 | 59.0 | 38 | 6 | AX222749 | C 348 | 11.8 | 59.0 | 81 | 14 | AF462945 | AF462945 Hepatitis |
| C 276 | 11.8 | 59.0 | 41 | 6 | AX323472 | C 349 | 11.8 | 59.0 | 84 | 9 | AF267114 | AF267114 Homo sapi |
| C 277 | 11.8 | 59.0 | 43 | 6 | AR027466 | C 350 | 11.8 | 59.0 | 88 | 8 | AF317943 | AF317943 Atrialdops |
| C 278 | 11.8 | 59.0 | 43 | 6 | AX322401 | C 351 | 11.8 | 59.0 | 90 | 6 | AX039249 | AX039249 Sequence |
| C 279 | 11.8 | 59.0 | 46 | 6 | A12775 | C 352 | 11.8 | 59.0 | 90 | 6 | AX039250 | AX039250 Sequence |
| C 280 | 11.8 | 59.0 | 47 | 6 | AX194992 | C 353 | 11.8 | 59.0 | 90 | 6 | AX039489 | AX039489 Sequence |
| C 281 | 11.8 | 59.0 | 48 | 6 | AX317303 | C 354 | 11.8 | 59.0 | 90 | 6 | AX039490 | AX039490 Sequence |
| C 282 | 11.8 | 59.0 | 50 | 6 | AX160660 | C 355 | 11.8 | 59.0 | 90 | 6 | AX134847 | AX134847 Sequence |
| C 283 | 11.8 | 59.0 | 51 | 6 | AX160659 | C 356 | 11.8 | 59.0 | 90 | 6 | AX134848 | AX134848 Sequence |
| C 284 | 11.8 | 59.0 | 51 | 6 | AX204498 | C 357 | 11.8 | 59.0 | 90 | 6 | AX134936 | AX134936 Sequence |
| C 285 | 11.8 | 59.0 | 51 | 9 | S78430 | C 358 | 11.8 | 59.0 | 90 | 6 | AX134937 | AX134937 Sequence |
| C 286 | 11.8 | 59.0 | 52 | 6 | AX150266 | C 359 | 11.8 | 59.0 | 90 | 6 | AX135055 | AX135055 Sequence |
| C 287 | 11.8 | 59.0 | 53 | 6 | A21017 | C 360 | 11.8 | 59.0 | 90 | 6 | AX135056 | AX135056 Sequence |
| C 288 | 11.8 | 59.0 | 53 | 6 | AR048061 | C 361 | 11.8 | 59.0 | 99 | 10 | MUSCERB6 | MUSCERB6 |
| C 289 | 11.8 | 59.0 | 53 | 6 | AR108964 | C 362 | 11.8 | 59.0 | 100 | 9 | HUMTCRH6 | HUMTCRH6 Human germ |
| C 290 | 11.8 | 59.0 | 53 | 6 | AR147775 | C 363 | 11.6 | 58.0 | 18 | 6 | AX355839 | AX355839 Sequence |
| C 291 | 11.8 | 59.0 | 60 | 9 | HSCATLIN | C 364 | 11.6 | 58.0 | 19 | 6 | AX118162 | AX118162 Sequence |
| C 292 | 11.8 | 59.0 | 61 | 6 | AR171467 | C 365 | 11.6 | 58.0 | 20 | 6 | AR044570 | AR044570 Sequence |

| | | | | | | | | | | | | | |
|-------|------|------|-----|----|-------------|---------------------|-------|------|------|-----|---|-----------|--------------------|
| C 366 | 11.6 | 58.0 | 20 | 6 | AX109846 | Sequence | 439 | 11.6 | 58.0 | 100 | 9 | HUMCYP4A4 | L00386 Human cyto |
| C 367 | 11.6 | 58.0 | 20 | 6 | AX294260 | Sequence | C 440 | 11.6 | 58.0 | 100 | 9 | A08121 | AU008121 Homo sapi |
| C 368 | 11.6 | 58.0 | 20 | 6 | E14565 | PCR primer | 441 | 11.4 | 57.0 | 15 | 6 | AR077139 | Sequence |
| C 369 | 11.6 | 58.0 | 20 | 6 | I61355 | Sequence 18 | 442 | 11.4 | 57.0 | 15 | 6 | AR097901 | Sequence |
| C 370 | 11.6 | 58.0 | 24 | 6 | AX289627 | Sequence | 443 | 11.4 | 57.0 | 15 | 6 | I27749 | Sequence 2 |
| C 371 | 11.6 | 58.0 | 25 | 6 | AX048796 | Sequence | 444 | 11.4 | 57.0 | 19 | 6 | AX300829 | Sequence |
| C 372 | 11.6 | 58.0 | 26 | 6 | AX055345 | Sequence | 445 | 11.4 | 57.0 | 19 | 6 | AX300829 | Sequence |
| C 373 | 11.6 | 58.0 | 26 | 6 | AX297570 | Sequence | 446 | 11.4 | 57.0 | 20 | 6 | I11049 | Sequence 8 |
| C 374 | 11.6 | 58.0 | 28 | 6 | AX005843 | Sequence | 447 | 11.4 | 57.0 | 20 | 6 | AR136578 | Sequence |
| C 375 | 11.6 | 58.0 | 30 | 6 | AR028275 | Sequence | 448 | 11.4 | 57.0 | 20 | 6 | AR154505 | Sequence |
| C 376 | 11.6 | 58.0 | 30 | 6 | AR138678 | Sequence | 449 | 11.4 | 57.0 | 20 | 6 | AX298991 | Sequence |
| C 377 | 11.6 | 58.0 | 31 | 6 | AX220610 | Sequence | 450 | 11.4 | 57.0 | 20 | 6 | E39194 | DNA encodin |
| C 378 | 11.6 | 58.0 | 31 | 6 | AX220749 | Sequence | 451 | 11.4 | 57.0 | 20 | 6 | I72421 | Sequence 5 |
| C 379 | 11.6 | 58.0 | 31 | 6 | E27249 | Sequence | 452 | 11.4 | 57.0 | 21 | 6 | I72424 | Sequence 8 |
| C 380 | 11.6 | 58.0 | 31 | 6 | E28322 | Utilization | 453 | 11.4 | 57.0 | 21 | 6 | AR035023 | Sequence |
| C 381 | 11.6 | 58.0 | 33 | 6 | A27724 | Oligonucleo | 454 | 11.4 | 57.0 | 21 | 6 | AR035044 | Sequence |
| C 382 | 11.6 | 58.0 | 34 | 6 | AR174743 | Sequence | 455 | 11.4 | 57.0 | 21 | 6 | AR035045 | Sequence |
| C 383 | 11.6 | 58.0 | 34 | 6 | AX084724 | Sequence | 456 | 11.4 | 57.0 | 21 | 6 | AX033018 | Sequence |
| C 384 | 11.6 | 58.0 | 35 | 6 | AX02884 | Synthetic p | 457 | 11.4 | 57.0 | 21 | 6 | AX338666 | Sequence |
| C 385 | 11.6 | 58.0 | 35 | 6 | AX147685 | Sequence | 458 | 11.4 | 57.0 | 21 | 6 | E07816 | Primer for |
| C 386 | 11.6 | 58.0 | 36 | 6 | AR021091 | Sequence | 459 | 11.4 | 57.0 | 22 | 6 | I42620 | Sequence 10 |
| C 387 | 11.6 | 58.0 | 36 | 6 | AR043506 | Sequence | 460 | 11.4 | 57.0 | 22 | 6 | I42667 | Sequence 57 |
| C 388 | 11.6 | 58.0 | 36 | 6 | AR062421 | Sequence | 461 | 11.4 | 57.0 | 22 | 6 | I72423 | Sequence 7 |
| C 389 | 11.6 | 58.0 | 38 | 6 | A17381 | Nucleotide | 462 | 11.4 | 57.0 | 24 | 6 | AX008170 | Sequence |
| C 390 | 11.6 | 58.0 | 38 | 6 | AX040125 | Sequence | 463 | 11.4 | 57.0 | 25 | 6 | AX300826 | Sequence |
| C 391 | 11.6 | 58.0 | 39 | 10 | MMIGHS92 | M. musculus | 464 | 11.4 | 57.0 | 25 | 6 | E41790 | Process for |
| C 392 | 11.6 | 58.0 | 40 | 6 | AR146515 | Sequence | 465 | 11.4 | 57.0 | 25 | 6 | I72519 | Sequence 10 |
| C 393 | 11.6 | 58.0 | 43 | 6 | AR146516 | Sequence | 466 | 11.4 | 57.0 | 26 | 6 | A73590 | Sequence 8 |
| C 394 | 11.6 | 58.0 | 43 | 6 | A30283 | Synthetic p | 467 | 11.4 | 57.0 | 26 | 6 | AR001429 | Sequence |
| C 395 | 11.6 | 58.0 | 43 | 6 | I33932 | Sequence 4 | 468 | 11.4 | 57.0 | 27 | 6 | A70118 | Sequence 36 |
| C 396 | 11.6 | 58.0 | 44 | 6 | AR083788 | Sequence | 469 | 11.4 | 57.0 | 27 | 6 | AR148251 | Sequence |
| C 397 | 11.6 | 58.0 | 45 | 6 | AX297571 | Sequence | 470 | 11.4 | 57.0 | 27 | 6 | AX278649 | Sequence |
| C 398 | 11.6 | 58.0 | 47 | 6 | AX194950 | Sequence | 471 | 11.4 | 57.0 | 28 | 6 | AX262472 | Sequence |
| C 399 | 11.6 | 58.0 | 50 | 6 | AX160046 | Sequence | 472 | 11.4 | 57.0 | 31 | 6 | AX183638 | Sequence |
| C 400 | 11.6 | 58.0 | 50 | 9 | HSTFE31A4 | X84968 H. sapiens t | 473 | 11.4 | 57.0 | 31 | 6 | BD002653 | Gene comp |
| C 401 | 11.6 | 58.0 | 51 | 6 | AR003003 | Sequence | 474 | 11.4 | 57.0 | 31 | 6 | BD002654 | Gene comp |
| C 402 | 11.6 | 58.0 | 51 | 6 | AX157235 | Sequence | 475 | 11.4 | 57.0 | 31 | 6 | BD002655 | Gene comp |
| C 403 | 11.6 | 58.0 | 51 | 6 | AX159423 | Sequence | 476 | 11.4 | 57.0 | 33 | 6 | AR071582 | Sequence |
| C 404 | 11.6 | 58.0 | 51 | 6 | AX159424 | Sequence | 477 | 11.4 | 57.0 | 33 | 6 | AR071583 | Sequence |
| C 405 | 11.6 | 58.0 | 51 | 6 | AX160709 | Sequence | 478 | 11.4 | 57.0 | 36 | 6 | AR007183 | Sequence |
| C 406 | 11.6 | 58.0 | 51 | 6 | AX160940 | Sequence | 479 | 11.4 | 57.0 | 36 | 6 | AR007193 | Sequence |
| C 407 | 11.6 | 58.0 | 51 | 6 | AX165336 | Sequence | 480 | 11.4 | 57.0 | 36 | 6 | AR048086 | Sequence |
| C 408 | 11.6 | 58.0 | 51 | 6 | AX199288 | Sequence | 481 | 11.4 | 57.0 | 36 | 6 | AR054189 | Sequence |
| C 409 | 11.6 | 58.0 | 51 | 6 | AX199288 | Sequence | 482 | 11.4 | 57.0 | 36 | 6 | AR063950 | Sequence |
| C 410 | 11.6 | 58.0 | 51 | 10 | AX199371 | Sequence | 483 | 11.4 | 57.0 | 36 | 6 | AR063960 | Sequence |
| C 411 | 11.6 | 58.0 | 55 | 6 | MUSTCBYBF | M56458 Mouse T-cell | 484 | 11.4 | 57.0 | 36 | 6 | AX339383 | Sequence |
| C 412 | 11.6 | 58.0 | 55 | 6 | AR052843 | Sequence | 485 | 11.4 | 57.0 | 36 | 6 | I74399 | Sequence 1 |
| C 413 | 11.6 | 58.0 | 58 | 6 | AX300066 | Sequence | 486 | 11.4 | 57.0 | 36 | 6 | I74409 | Sequence 11 |
| C 414 | 11.6 | 58.0 | 58 | 10 | HUMTPA01 | L00140 Human tisu | 487 | 11.4 | 57.0 | 38 | 6 | AR033881 | Sequence |
| C 415 | 11.6 | 58.0 | 66 | 10 | MMU79541 | Mus musculus | 488 | 11.4 | 57.0 | 38 | 6 | AR175014 | Sequence |
| C 416 | 11.6 | 58.0 | 69 | 10 | AF096395 | AF096395 Mus muscu | 489 | 11.4 | 57.0 | 38 | 6 | AR032442 | Sequence |
| C 417 | 11.6 | 58.0 | 73 | 4 | BOVMTRT | K00259 Bovine mito | 490 | 11.4 | 57.0 | 39 | 6 | AR032442 | Sequence |
| C 418 | 11.6 | 58.0 | 75 | 10 | MMU79540 | U79540 Mus musculus | 491 | 11.4 | 57.0 | 39 | 6 | AR013907 | Sequence |
| C 419 | 11.6 | 58.0 | 81 | 6 | AR173118 | Sequence | 492 | 11.4 | 57.0 | 39 | 6 | AR033861 | Sequence |
| C 420 | 11.6 | 58.0 | 83 | 6 | AR173119 | Sequence | 493 | 11.4 | 57.0 | 39 | 6 | AR042521 | Sequence |
| C 421 | 11.6 | 58.0 | 85 | 6 | HST91236 | U91236 Homo sapien | 494 | 11.4 | 57.0 | 39 | 6 | AR058401 | Sequence |
| C 422 | 11.6 | 58.0 | 86 | 6 | AX023575 | Sequence | 495 | 11.4 | 57.0 | 39 | 6 | AR088227 | Sequence |
| C 423 | 11.6 | 58.0 | 87 | 6 | AX322448 | Sequence | 496 | 11.4 | 57.0 | 39 | 6 | AR102959 | Sequence |
| C 424 | 11.6 | 58.0 | 87 | 6 | HUMVIM09 | AX322448 Sequence | 497 | 11.4 | 57.0 | 39 | 6 | AR119605 | Sequence |
| C 425 | 11.6 | 58.0 | 87 | 10 | MMU20302 | M18894 Homo sapien | 498 | 11.4 | 57.0 | 40 | 6 | I63608 | Sequence 33 |
| C 426 | 11.6 | 58.0 | 89 | 10 | MUSPRCON04 | U03002 Mus musculu | 499 | 11.4 | 57.0 | 44 | 6 | BD006619 | Sequence |
| C 427 | 11.6 | 58.0 | 91 | 14 | AB034436 | L21212 Mouse propt | 500 | 11.4 | 57.0 | 44 | 6 | AX084353 | Sequence |
| C 428 | 11.6 | 58.0 | 91 | 14 | AB034433 | AB034436 Human imm | 501 | 11.4 | 57.0 | 45 | 6 | AR032623 | Sequence |
| C 429 | 11.6 | 58.0 | 93 | 9 | HSWAP16 | U34067 Human micro | 502 | 11.4 | 57.0 | 45 | 6 | I29363 | Sequence |
| C 430 | 11.6 | 58.0 | 93 | 9 | HSU07638 | U07638 Human TCR a | 503 | 11.4 | 57.0 | 45 | 6 | I91037 | Sequence 23 |
| C 431 | 11.6 | 58.0 | 95 | 9 | FA349018512 | AF349029 Homo sapi | 504 | 11.4 | 57.0 | 50 | 6 | AX162332 | Sequence |
| C 432 | 11.6 | 58.0 | 96 | 6 | AR107488 | Sequence | 505 | 11.4 | 57.0 | 51 | 6 | AX160186 | Sequence |
| C 433 | 11.6 | 58.0 | 96 | 6 | GGUOPSEU08 | U05515 Gorilla gor | 506 | 11.4 | 57.0 | 51 | 6 | AX160513 | Sequence |
| C 434 | 11.6 | 58.0 | 96 | 10 | AF126463 | AF126463 Mus muscu | 507 | 11.4 | 57.0 | 51 | 6 | AX160529 | Sequence |
| C 435 | 11.6 | 58.0 | 96 | 10 | AF126465 | U67779 Mus musculu | 508 | 11.4 | 57.0 | 51 | 6 | AX162021 | Sequence |
| C 436 | 11.6 | 58.0 | 96 | 10 | MMU26779 | Sequence | 509 | 11.4 | 57.0 | 51 | 6 | AX162022 | Sequence |
| C 437 | 11.6 | 58.0 | 100 | 6 | AR078713 | Sequence | 510 | 11.4 | 57.0 | 51 | 6 | AX162331 | Sequence |
| C 438 | 11.6 | 58.0 | 100 | 6 | I25137 | Sequence 33 | 511 | 11.4 | 57.0 | 51 | 6 | AX163265 | Sequence |
| | | | | | | | | | | 52 | 6 | AR057362 | Sequence |

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|-----|------|------|----|----|------------|---------------------|-----|------|------|----|----|-----------|----------------------|
| 512 | 11.4 | 57.0 | 52 | 6 | AR115120 | AR115120 Sequence | 585 | 11.2 | 56.0 | 33 | 6 | AR161335 | AR161335 Sequence |
| 513 | 11.4 | 57.0 | 60 | 10 | MUSGACAB | M38072 Mouse circlu | 586 | 11.2 | 56.0 | 33 | 6 | I63026 | I63026 Sequence |
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| 515 | 11.4 | 57.0 | 64 | 6 | AR124112 | AR124112 Sequence | 588 | 11.2 | 56.0 | 34 | 6 | AX004217 | AX004217 Sequence |
| 516 | 11.4 | 57.0 | 64 | 6 | AX022594 | AX022594 Sequence | 589 | 11.2 | 56.0 | 34 | 6 | AX207936 | AX207936 Sequence |
| 517 | 11.4 | 57.0 | 64 | 6 | E36135 | E36135 Chimeric se | 590 | 11.2 | 56.0 | 34 | 6 | AX207949 | AX207949 Sequence |
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| 519 | 11.4 | 57.0 | 72 | 6 | AR089068 | AR089068 Sequence | 592 | 11.2 | 56.0 | 35 | 6 | AX001438 | AX001438 Sequence |
| 520 | 11.4 | 57.0 | 72 | 6 | AR089069 | AR089069 Sequence | 593 | 11.2 | 56.0 | 35 | 23 | E09943 | E09943 PCR primer |
| 521 | 11.4 | 57.0 | 72 | 6 | AR089070 | AR089070 Sequence | 594 | 11.2 | 56.0 | 36 | 6 | AR041588 | AR041588 Sequence |
| 522 | 11.4 | 57.0 | 72 | 6 | AR140701 | AR140701 Sequence | 595 | 11.2 | 56.0 | 36 | 6 | AR070501 | AR070501 Sequence |
| 523 | 11.4 | 57.0 | 72 | 6 | AR140704 | AR140704 Sequence | 596 | 11.2 | 56.0 | 36 | 6 | E33818 | E33818 Cell cycle |
| 524 | 11.4 | 57.0 | 72 | 6 | AR140705 | AR140705 Sequence | 597 | 11.2 | 56.0 | 36 | 6 | I35130 | I35130 Sequence |
| 525 | 11.4 | 57.0 | 72 | 6 | AR140706 | AR140706 Sequence | 598 | 11.2 | 56.0 | 36 | 6 | I62168 | I62168 Sequence |
| 526 | 11.4 | 57.0 | 80 | 6 | AI17994 | AI17994 Oligonucleo | 599 | 11.2 | 56.0 | 37 | 6 | AX322224 | AX322224 Sequence |
| 527 | 11.4 | 57.0 | 80 | 12 | SYNPHSIE | M10913 Plasmid pHS | 600 | 11.2 | 56.0 | 38 | 6 | AR046855 | AR046855 Sequence |
| 528 | 11.4 | 57.0 | 89 | 6 | A69899 | A69899 Sequence | 601 | 11.2 | 56.0 | 38 | 6 | AR057889 | AR057889 Sequence |
| 529 | 11.4 | 57.0 | 90 | 5 | GDCARTRPA | X69403 G.domesticu | 602 | 11.2 | 56.0 | 38 | 6 | AR058069 | AR058069 Sequence |
| 530 | 11.4 | 57.0 | 93 | 10 | RATGSTYA | M27446 Rat glutath | 603 | 11.2 | 56.0 | 38 | 6 | AR058159 | AR058159 Sequence |
| 531 | 11.4 | 57.0 | 95 | 12 | SYN3PHSIC | M19081 Plasmid pHS | 604 | 11.2 | 56.0 | 38 | 6 | AR115647 | AR115647 Sequence |
| 532 | 11.2 | 56.0 | 17 | 6 | AX272714 | AX272714 Sequence | 605 | 11.2 | 56.0 | 38 | 6 | AR115827 | AR115827 Sequence |
| 533 | 11.2 | 56.0 | 18 | 6 | AR118856 | AR118856 Sequence | 606 | 11.2 | 56.0 | 38 | 6 | AR115917 | AR115917 Sequence |
| 534 | 11.2 | 56.0 | 20 | 4 | DOCP40001 | L24286 Dog (Clone: | 607 | 11.2 | 56.0 | 38 | 6 | AX220278 | AX220278 Sequence |
| 535 | 11.2 | 56.0 | 20 | 6 | A48863 | A48863 Sequence | 608 | 11.2 | 56.0 | 38 | 6 | AX220381 | AX220381 Sequence |
| 536 | 11.2 | 56.0 | 20 | 6 | AR127151 | AR127151 Sequence | 609 | 11.2 | 56.0 | 38 | 6 | AX222899 | AX222899 Sequence |
| 537 | 11.2 | 56.0 | 20 | 6 | AR130838 | AR130838 Sequence | 610 | 11.2 | 56.0 | 38 | 6 | AX273905 | AX273905 Sequence |
| 538 | 11.2 | 56.0 | 20 | 6 | AX328550 | AX328550 Sequence | 611 | 11.2 | 56.0 | 38 | 6 | AX273950 | AX273950 Sequence |
| 539 | 11.2 | 56.0 | 20 | 6 | E15742 | E15742 PCR primer | 612 | 11.2 | 56.0 | 38 | 6 | I37744 | I37744 Sequence |
| 540 | 11.2 | 56.0 | 21 | 6 | A24032 | A24032 Synthetic m | 613 | 11.2 | 56.0 | 38 | 6 | I53907 | I53907 Sequence |
| 541 | 11.2 | 56.0 | 21 | 6 | A25402 | A25402 CE gene mut | 614 | 11.2 | 56.0 | 38 | 6 | I94594 | I94594 Sequence |
| 542 | 11.2 | 56.0 | 21 | 6 | AR148290 | AR148290 Sequence | 615 | 11.2 | 56.0 | 39 | 6 | A22326 | A22326 Primer O-2 |
| 543 | 11.2 | 56.0 | 21 | 6 | AR180841 | AR180841 Sequence | 616 | 11.2 | 56.0 | 39 | 6 | AR053667 | AR053667 Sequence |
| 544 | 11.2 | 56.0 | 21 | 6 | AX203593 | AX203593 Sequence | 617 | 11.2 | 56.0 | 40 | 6 | I00664 | I00664 Sequence |
| 545 | 11.2 | 56.0 | 21 | 6 | I17251 | I17251 Sequence | 618 | 11.2 | 56.0 | 43 | 6 | AX080740 | AX080740 Sequence |
| 546 | 11.2 | 56.0 | 21 | 6 | I17252 | I17252 Sequence | 619 | 11.2 | 56.0 | 43 | 6 | AX103948 | AX103948 Sequence |
| 547 | 11.2 | 56.0 | 22 | 6 | A64497 | A64497 Sequence | 620 | 11.2 | 56.0 | 43 | 6 | AX103949 | AX103949 Sequence |
| 548 | 11.2 | 56.0 | 22 | 6 | AR051709 | AR051709 Sequence | 621 | 11.2 | 56.0 | 43 | 6 | AX355767 | AX355767 Sequence |
| 549 | 11.2 | 56.0 | 22 | 6 | E08115 | E08115 Synthetic o | 622 | 11.2 | 56.0 | 43 | 6 | AX355783 | AX355783 Sequence |
| 550 | 11.2 | 56.0 | 22 | 6 | I18242 | I18242 Sequence | 623 | 11.2 | 56.0 | 46 | 6 | AR082266 | AR082266 Sequence |
| 551 | 11.2 | 56.0 | 24 | 6 | AR028645 | AR028645 Sequence | 624 | 11.2 | 56.0 | 46 | 6 | AR120808 | AR120808 Sequence |
| 552 | 11.2 | 56.0 | 24 | 6 | AR053738 | AR053738 Sequence | 625 | 11.2 | 56.0 | 46 | 6 | I90210 | I90210 Sequence |
| 553 | 11.2 | 56.0 | 24 | 6 | AR146238 | AR146238 Sequence | 626 | 11.2 | 56.0 | 46 | 6 | I78312 | I78312 Sequence |
| 554 | 11.2 | 56.0 | 24 | 6 | AX006903 | AX006903 Sequence | 627 | 11.2 | 56.0 | 48 | 6 | AX147851 | AX147851 Sequence |
| 555 | 11.2 | 56.0 | 24 | 6 | AX291518 | AX291518 Sequence | 628 | 11.2 | 56.0 | 49 | 6 | AX279782 | AX279782 Sequence |
| 556 | 11.2 | 56.0 | 24 | 6 | I73317 | I73317 Sequence | 629 | 11.2 | 56.0 | 50 | 6 | AR032861 | AR032861 Sequence |
| 557 | 11.2 | 56.0 | 24 | 11 | DOCG00111A | L77517 Cantis fam11 | 630 | 11.2 | 56.0 | 50 | 6 | AR079735 | AR079735 Sequence |
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| 559 | 11.2 | 56.0 | 25 | 6 | A37757 | A37757 Sequence | 632 | 11.2 | 56.0 | 50 | 6 | AR170625 | AR170625 Sequence |
| 560 | 11.2 | 56.0 | 26 | 6 | AR087914 | AR087914 Sequence | 633 | 11.2 | 56.0 | 50 | 6 | AX162364 | AX162364 Sequence |
| 561 | 11.2 | 56.0 | 26 | 6 | AX003448 | AX003448 Sequence | 634 | 11.2 | 56.0 | 50 | 6 | I29601 | I29601 Sequence |
| 562 | 11.2 | 56.0 | 26 | 6 | I80132 | I80132 Sequence | 635 | 11.2 | 56.0 | 50 | 6 | I91275 | I91275 Sequence |
| 563 | 11.2 | 56.0 | 27 | 6 | AX039287 | AX039287 Sequence | 636 | 11.2 | 56.0 | 51 | 6 | MM041933 | MM041933 Mus musculu |
| 564 | 11.2 | 56.0 | 27 | 6 | AX117424 | AX117424 Sequence | 637 | 11.2 | 56.0 | 51 | 6 | AR164559 | AR164559 Sequence |
| 565 | 11.2 | 56.0 | 27 | 6 | AX343844 | AX343844 Sequence | 638 | 11.2 | 56.0 | 51 | 6 | AX116045 | AX116045 Sequence |
| 566 | 11.2 | 56.0 | 28 | 6 | AR063922 | AR063922 Sequence | 639 | 11.2 | 56.0 | 51 | 6 | AX118389 | AX118389 Sequence |
| 567 | 11.2 | 56.0 | 28 | 6 | I92755 | I92755 Sequence | 640 | 11.2 | 56.0 | 51 | 6 | AX160772 | AX160772 Sequence |
| 568 | 11.2 | 56.0 | 29 | 6 | AX113627 | AX113627 Sequence | 641 | 11.2 | 56.0 | 51 | 6 | AX162363 | AX162363 Sequence |
| 569 | 11.2 | 56.0 | 30 | 6 | A93607 | A93607 Sequence | 642 | 11.2 | 56.0 | 51 | 6 | AX165252 | AX165252 Sequence |
| 570 | 11.2 | 56.0 | 30 | 6 | AR142403 | AR142403 Sequence | 643 | 11.2 | 56.0 | 51 | 6 | AX165665 | AX165665 Sequence |
| 571 | 11.2 | 56.0 | 30 | 6 | AR162820 | AR162820 Sequence | 644 | 11.2 | 56.0 | 51 | 6 | AX189928 | AX189928 Sequence |
| 572 | 11.2 | 56.0 | 30 | 6 | AX058066 | AX058066 Sequence | 645 | 11.2 | 56.0 | 51 | 6 | AX199182 | AX199182 Sequence |
| 573 | 11.2 | 56.0 | 30 | 6 | AX093853 | AX093853 Sequence | 646 | 11.2 | 56.0 | 51 | 6 | AX199555 | AX199555 Sequence |
| 574 | 11.2 | 56.0 | 30 | 6 | AX207916 | AX207916 Sequence | 647 | 11.2 | 56.0 | 51 | 6 | AX199557 | AX199557 Sequence |
| 575 | 11.2 | 56.0 | 31 | 6 | AX248170 | AX248170 Sequence | 648 | 11.2 | 56.0 | 51 | 6 | AX322199 | AX322199 Sequence |
| 576 | 11.2 | 56.0 | 31 | 6 | AX248175 | AX248175 Sequence | 649 | 11.2 | 56.0 | 54 | 6 | AX034926 | AX034926 Sequence |
| 577 | 11.2 | 56.0 | 31 | 6 | AX248188 | AX248188 Sequence | 650 | 11.2 | 56.0 | 54 | 6 | AF233938 | AF233938 Homo sap1 |
| 578 | 11.2 | 56.0 | 32 | 6 | AX027138 | AX027138 Sequence | 651 | 11.2 | 56.0 | 59 | 6 | AX011411 | AX011411 Sequence |
| 579 | 11.2 | 56.0 | 32 | 6 | AX057957 | AX057957 Sequence | 652 | 11.2 | 56.0 | 60 | 6 | AB0463 | AB0463 Sequence |
| 580 | 11.2 | 56.0 | 32 | 6 | AX111374 | AX111374 Sequence | 653 | 11.2 | 56.0 | 61 | 9 | SS9798S09 | SS9798S09 Sequence |
| 581 | 11.2 | 56.0 | 32 | 6 | AX280650 | AX280650 Sequence | 654 | 11.2 | 56.0 | 62 | 6 | I75983 | I75983 Sequence |
| 582 | 11.2 | 56.0 | 32 | 6 | AX297920 | AX297920 Sequence | 655 | 11.2 | 56.0 | 63 | 6 | A59025 | A59025 Sequence |
| 583 | 11.2 | 56.0 | 32 | 6 | BD000490 | BD000490 Process f | 656 | 11.2 | 56.0 | 63 | 6 | A59026 | A59026 Sequence |
| 584 | 11.2 | 56.0 | 33 | 6 | AR043035 | AR043035 Sequence | 657 | 11.2 | 56.0 | 63 | 6 | | |

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|-------|------|------|-----|----|-----------|---------------------|-------|----|------|----|---|-----------|----------------------|
| 658 | 11.2 | 56.0 | 63 | 6 | AR074071 | AR074071 Sequence | 731 | 11 | 55.0 | 30 | 6 | AR153928 | AR153928 Sequence |
| 659 | 11.2 | 56.0 | 63 | 6 | I55110 | I55110 Sequence 8 | 732 | 11 | 55.0 | 30 | 6 | AR162880 | AR162880 Sequence |
| c 660 | 11.2 | 56.0 | 67 | 6 | AR0774 | AR0774 Sequence 83 | c 733 | 11 | 55.0 | 30 | 6 | AX234426 | AX234426 Sequence |
| c 661 | 11.2 | 56.0 | 70 | 5 | TTRN28D8 | Z18749 Tinca tinca | c 734 | 11 | 55.0 | 31 | 6 | AR138440 | AR138440 Sequence |
| c 662 | 11.2 | 56.0 | 70 | 6 | AX089388 | AX089388 Sequence | c 735 | 11 | 55.0 | 31 | 6 | AR140101 | AR140101 Sequence |
| c 663 | 11.2 | 56.0 | 74 | 1 | CE1ALDA | M10685 Plasmid PA0 | c 736 | 11 | 55.0 | 31 | 6 | AX088128 | AX088128 Sequence |
| c 664 | 11.2 | 56.0 | 75 | 6 | AR157670 | AR157670 Sequence | c 737 | 11 | 55.0 | 31 | 6 | E15873 | E15873 PCR Primer |
| 665 | 11.2 | 56.0 | 75 | 10 | RATMCR1BO | M76785 Rat MHC cla | c 738 | 11 | 55.0 | 33 | 6 | AX111344 | AX111344 Sequence |
| 666 | 11.2 | 56.0 | 77 | 6 | AY013984 | AY013984 Lissosyem | c 739 | 11 | 55.0 | 35 | 6 | AX073741 | AX073741 Sequence |
| 667 | 11.2 | 56.0 | 77 | 6 | AX326815 | AX326815 Sequence | c 740 | 11 | 55.0 | 35 | 6 | AX190655 | AX190655 Sequence |
| c 668 | 11.2 | 56.0 | 78 | 1 | CE1RP2 | K01611 Plasmid Col | c 741 | 11 | 55.0 | 36 | 6 | AA2221 | AA2221 Sequence 9 |
| c 669 | 11.2 | 56.0 | 79 | 6 | I19291 | I19291 Sequence 63 | c 742 | 11 | 55.0 | 36 | 6 | AR071015 | AR071015 Sequence |
| c 670 | 11.2 | 56.0 | 81 | 3 | EMU79464 | U79464 Eliminius mo | c 743 | 11 | 55.0 | 36 | 6 | AX052705 | AX052705 Sequence |
| c 671 | 11.2 | 56.0 | 81 | 6 | E02050 | E02050 DNA encodin | c 744 | 11 | 55.0 | 37 | 6 | AX219908 | AX219908 Sequence |
| c 672 | 11.2 | 56.0 | 83 | 5 | AF033545 | AF033545 Saxicola | c 745 | 11 | 55.0 | 38 | 6 | AR161345 | AR161345 Sequence |
| c 673 | 11.2 | 56.0 | 84 | 10 | RATMCR1BP | M76786 Rat MHC cla | c 746 | 11 | 55.0 | 39 | 6 | AR161346 | AR161346 Sequence |
| c 674 | 11.2 | 56.0 | 87 | 6 | E02052 | E02052 DNA encodin | c 747 | 11 | 55.0 | 39 | 6 | AX038722 | AX038722 Sequence |
| c 675 | 11.2 | 56.0 | 87 | 6 | E02053 | E02053 DNA encodin | c 748 | 11 | 55.0 | 39 | 6 | AX190657 | AX190657 Sequence |
| c 676 | 11.2 | 56.0 | 89 | 10 | MUSMAGA04 | M74783 Mouse myel1 | c 749 | 11 | 55.0 | 40 | 6 | I38867 | I38867 Sequence 8 |
| c 677 | 11.2 | 56.0 | 90 | 1 | S73057 | S73057 compl-major | c 750 | 11 | 55.0 | 41 | 6 | AX111387 | AX111387 Sequence 7 |
| 678 | 11.2 | 56.0 | 90 | 6 | E02051 | E02051 DNA encodin | c 751 | 11 | 55.0 | 42 | 6 | AY5323 | AY5323 Sequence 9 |
| 679 | 11.2 | 56.0 | 90 | 6 | E02054 | E02054 DNA encodin | c 752 | 11 | 55.0 | 42 | 6 | AX090074 | AX090074 Sequence 9 |
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| 681 | 11.2 | 56.0 | 91 | 6 | AR169894 | AR169894 Sequence | c 754 | 11 | 55.0 | 42 | 6 | I40816 | I40816 Sequence 10 |
| 682 | 11.2 | 56.0 | 93 | 6 | AR026962 | AR026962 Sequence | c 755 | 11 | 55.0 | 42 | 6 | I67997 | I67997 Sequence 9 |
| 683 | 11.2 | 56.0 | 93 | 6 | AR074458 | AR074458 Sequence | c 756 | 11 | 55.0 | 42 | 6 | I67998 | I67998 Sequence 10 |
| 684 | 11.2 | 56.0 | 93 | 6 | AR081138 | AR081138 Sequence | c 757 | 11 | 55.0 | 42 | 6 | I68253 | I68253 Sequence 9 |
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| 686 | 11.2 | 56.0 | 93 | 6 | AR088083 | AR088083 Sequence | c 759 | 11 | 55.0 | 42 | 6 | I72184 | I72184 Sequence 9 |
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| 688 | 11.2 | 56.0 | 93 | 6 | AR143506 | AR143506 Sequence | c 761 | 11 | 55.0 | 43 | 6 | I78646 | I78646 Sequence 1 |
| 689 | 11.2 | 56.0 | 93 | 6 | AR171410 | AR171410 Sequence | c 762 | 11 | 55.0 | 43 | 6 | I78647 | I78647 Sequence 2 |
| 690 | 11.2 | 56.0 | 93 | 6 | AR171581 | AR171581 Sequence | c 763 | 11 | 55.0 | 43 | 6 | I78648 | I78648 Sequence 3 |
| 691 | 11.2 | 56.0 | 94 | 6 | AX023601 | AX023601 Sequence | c 764 | 11 | 55.0 | 43 | 6 | I78649 | I78649 Sequence 4 |
| c 692 | 11.2 | 56.0 | 99 | 4 | AF232765 | AF232765 Cervus el | c 765 | 11 | 55.0 | 43 | 6 | I78650 | I78650 Sequence 5 |
| c 693 | 11.2 | 56.0 | 100 | 11 | G43460 | G43460 WtAF-2192-S | c 766 | 11 | 55.0 | 43 | 6 | I78656 | I78656 Sequence 11 |
| 694 | 11 | 55.0 | 17 | 6 | AX329293 | AX329293 Sequence | c 767 | 11 | 55.0 | 43 | 6 | I78657 | I78657 Sequence 12 |
| 695 | 11 | 55.0 | 19 | 6 | AR162638 | AR162638 Sequence | c 768 | 11 | 55.0 | 45 | 6 | A08292 | A08292 Synthetic n |
| c 696 | 11 | 55.0 | 19 | 6 | AX116582 | AX116582 Sequence | c 769 | 11 | 55.0 | 45 | 6 | AX080580 | AX080580 Sequence |
| 697 | 11 | 55.0 | 19 | 6 | AX166712 | AX166712 Sequence | c 770 | 11 | 55.0 | 45 | 6 | AX080703 | AX080703 Sequence 35 |
| 698 | 11 | 55.0 | 20 | 6 | AX326895 | AX326895 Sequence | c 771 | 11 | 55.0 | 45 | 6 | I44811 | I44811 Sequence 35 |
| 699 | 11 | 55.0 | 21 | 6 | AX024461 | AX024461 Sequence | c 772 | 11 | 55.0 | 47 | 6 | AX153816 | AX153816 Sequence |
| c 700 | 11 | 55.0 | 21 | 6 | AX024470 | AX024470 Sequence | c 773 | 11 | 55.0 | 48 | 6 | AR122070 | AR122070 Sequence |
| c 701 | 11 | 55.0 | 21 | 6 | AX026863 | AX026863 Sequence | c 774 | 11 | 55.0 | 48 | 6 | AX150273 | AX150273 Sequence |
| c 702 | 11 | 55.0 | 22 | 6 | AY32217 | AY32217 Sequence 19 | c 775 | 11 | 55.0 | 50 | 6 | AR074563 | AR074563 Sequence |
| c 703 | 11 | 55.0 | 22 | 6 | BD007495 | BD007495 Secretary | c 776 | 11 | 55.0 | 50 | 6 | AR157443 | AR157443 Sequence |
| 704 | 11 | 55.0 | 23 | 6 | AA8866 | AA8866 Sequence 6 | c 777 | 11 | 55.0 | 50 | 6 | AX157872 | AX157872 Sequence |
| 705 | 11 | 55.0 | 23 | 6 | AR102138 | AR102138 Sequence | c 778 | 11 | 55.0 | 50 | 6 | AX233386 | AX233386 Sequence |
| 706 | 11 | 55.0 | 23 | 6 | AR103182 | AR103182 Sequence | c 779 | 11 | 55.0 | 50 | 9 | HSEZR1G15 | AF053445 Homo sapi |
| 707 | 11 | 55.0 | 23 | 6 | AR127154 | AR127154 Sequence | c 780 | 11 | 55.0 | 51 | 6 | AR086648 | AR086648 Sequence |
| 708 | 11 | 55.0 | 23 | 6 | AX287628 | AX287628 Sequence | c 781 | 11 | 55.0 | 51 | 6 | AR086655 | AR086655 Sequence |
| 709 | 11 | 55.0 | 24 | 6 | AR048478 | AR048478 Sequence | c 782 | 11 | 55.0 | 51 | 6 | AX118289 | AX118289 Sequence |
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| c 711 | 11 | 55.0 | 24 | 6 | AR070160 | AR070160 Sequence | c 784 | 11 | 55.0 | 51 | 6 | AX157006 | AX157006 Sequence |
| c 712 | 11 | 55.0 | 24 | 6 | AR095563 | AR095563 Sequence | c 785 | 11 | 55.0 | 51 | 6 | AX157871 | AX157871 Sequence |
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| c 715 | 11 | 55.0 | 24 | 6 | AR134722 | AR134722 Sequence | c 788 | 11 | 55.0 | 51 | 6 | AX158413 | AX158413 Sequence |
| c 716 | 11 | 55.0 | 24 | 6 | E23724 | E23724 Immortalize | c 789 | 11 | 55.0 | 51 | 6 | AX158414 | AX158414 Sequence |
| c 717 | 11 | 55.0 | 24 | 6 | E37849 | E37849 Anti-HIV ag | c 790 | 11 | 55.0 | 51 | 6 | AX159833 | AX159833 Sequence |
| c 718 | 11 | 55.0 | 26 | 6 | I15692 | I15692 Sequence 6 | c 791 | 11 | 55.0 | 51 | 6 | AX159835 | AX159835 Sequence |
| c 719 | 11 | 55.0 | 27 | 6 | AR026644 | AR026644 Sequence | c 792 | 11 | 55.0 | 51 | 6 | AX160113 | AX160113 Sequence |
| 720 | 11 | 55.0 | 27 | 6 | AR126128 | AR126128 Sequence | c 793 | 11 | 55.0 | 51 | 6 | AX165713 | AX165713 Sequence |
| 721 | 11 | 55.0 | 27 | 6 | AR172542 | AR172542 Sequence | c 794 | 11 | 55.0 | 51 | 6 | AX189854 | AX189854 Sequence |
| 722 | 11 | 55.0 | 27 | 6 | AX104371 | AX104371 Sequence | c 795 | 11 | 55.0 | 51 | 6 | AX189855 | AX189855 Sequence |
| 723 | 11 | 55.0 | 27 | 6 | AX318073 | AX318073 Sequence | c 796 | 11 | 55.0 | 51 | 6 | AX189914 | AX189914 Sequence |
| 724 | 11 | 55.0 | 27 | 6 | AX355799 | AX355799 Sequence | c 797 | 11 | 55.0 | 51 | 6 | AX189915 | AX189915 Sequence |
| 725 | 11 | 55.0 | 27 | 6 | I23391 | I23391 Sequence 9 | c 798 | 11 | 55.0 | 51 | 6 | AX190074 | AX190074 Sequence |
| c 726 | 11 | 55.0 | 28 | 6 | AR091183 | AR091183 Sequence | c 799 | 11 | 55.0 | 51 | 6 | AX190075 | AX190075 Sequence |
| c 727 | 11 | 55.0 | 29 | 6 | AX000863 | AX000863 Sequence | c 800 | 11 | 55.0 | 51 | 6 | AX199120 | AX199120 Sequence |
| 728 | 11 | 55.0 | 29 | 6 | AX259887 | AX259887 Sequence | c 801 | 11 | 55.0 | 51 | 6 | AX203948 | AX203948 Sequence |
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| 730 | 11 | 55.0 | 30 | 6 | AR067282 | AR067282 Sequence | c 803 | 11 | 55.0 | 51 | 6 | AX204101 | AX204101 Sequence |

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|-------|----|------|----|----|-------------|--------------|-------|------|------|-----|----|------------|---------------------------|
| 804 | 11 | 55.0 | 51 | 6 | AX287627 | Sequence | C 877 | 11 | 55.0 | 72 | 9 | AF189397 | AF189397 Homo sapi |
| 805 | 11 | 55.0 | 51 | 10 | S77091 | T-cell rece | C 878 | 11 | 55.0 | 72 | 9 | AF189399 | AF189399 Homo sapi |
| C 806 | 11 | 55.0 | 53 | 6 | AR052851 | Sequence | C 879 | 11 | 55.0 | 72 | 9 | AF189402 | AF189402 Homo sapi |
| C 807 | 11 | 55.0 | 54 | 6 | AI9028 | Nucleotide | C 880 | 11 | 55.0 | 72 | 9 | AF189406 | AF189406 Homo sapi |
| C 808 | 11 | 55.0 | 54 | 6 | AI9029 | Sequence | C 881 | 11 | 55.0 | 72 | 9 | AF189410 | AF189410 Homo sapi |
| C 809 | 11 | 55.0 | 54 | 6 | A63186 | Sequence | C 882 | 11 | 55.0 | 72 | 9 | AF189418 | AF189418 Homo sapi |
| C 810 | 11 | 55.0 | 54 | 6 | S73627 | Sequence | C 883 | 11 | 55.0 | 72 | 9 | AF189420 | AF189420 Homo sapi |
| C 811 | 11 | 55.0 | 55 | 6 | AR112996 | Sequence | C 884 | 11 | 55.0 | 72 | 9 | AF189423 | AF189423 Homo sapi |
| C 812 | 11 | 55.0 | 55 | 6 | E49740 | Biological | C 885 | 11 | 55.0 | 72 | 9 | AF189430 | AF189430 Homo sapi |
| C 813 | 11 | 55.0 | 55 | 6 | I28996 | Sequence | C 886 | 11 | 55.0 | 72 | 9 | AF189433 | AF189433 Homo sapi |
| C 814 | 11 | 55.0 | 55 | 9 | S59971 | TAL1D1-prot | C 887 | 11 | 55.0 | 72 | 9 | AF189434 | AF189434 Homo sapi |
| C 815 | 11 | 55.0 | 57 | 9 | S52909 | Tcr alpha V | C 888 | 11 | 55.0 | 72 | 9 | AF189437 | AF189437 Homo sapi |
| C 816 | 11 | 55.0 | 57 | 9 | AF189429 | Sequence | C 889 | 11 | 55.0 | 72 | 10 | AF158164 | AF158164 Mus muscu |
| C 817 | 11 | 55.0 | 59 | 6 | AX011417 | Sequence | C 890 | 11 | 55.0 | 74 | 6 | AX039320 | AX039320 Sequence |
| C 818 | 11 | 55.0 | 59 | 6 | AX011502 | Sequence | C 891 | 11 | 55.0 | 75 | 9 | HSAL05N | Y66662 H sapiens m |
| C 819 | 11 | 55.0 | 59 | 6 | S59972 | Sequence | C 892 | 11 | 55.0 | 75 | 9 | AF189372 | AF189372 Homo sapi |
| C 820 | 11 | 55.0 | 60 | 9 | HUMSAU03A03 | Sequence | C 893 | 11 | 55.0 | 75 | 9 | AF189377 | AF189377 Homo sapi |
| C 821 | 11 | 55.0 | 60 | 9 | AF189375 | Human alpha | C 894 | 11 | 55.0 | 75 | 9 | AF189405 | AF189405 Homo sapi |
| C 822 | 11 | 55.0 | 60 | 9 | AF189378 | Sequence | C 895 | 11 | 55.0 | 75 | 9 | AF189413 | AF189413 Homo sapi |
| C 823 | 11 | 55.0 | 60 | 9 | AF189400 | Homo sapi | C 896 | 11 | 55.0 | 75 | 10 | S71319 | S71319 Hox1.11 hom |
| C 824 | 11 | 55.0 | 60 | 9 | AF189435 | Homo sapi | C 897 | 11 | 55.0 | 76 | 6 | AX039321 | AX039321 Sequence |
| C 825 | 11 | 55.0 | 60 | 9 | AF189439 | Homo sapi | C 898 | 11 | 55.0 | 76 | 6 | AX233530 | AX233530 Sequence |
| C 826 | 11 | 55.0 | 62 | 6 | AX139536 | Sequence | C 899 | 11 | 55.0 | 78 | 9 | AF189379 | AF189379 Homo sapi |
| C 827 | 11 | 55.0 | 62 | 10 | MUSCIBYBE | Mouse T-cell | C 900 | 11 | 55.0 | 78 | 9 | AF189387 | AF189387 Homo sapi |
| C 828 | 11 | 55.0 | 63 | 9 | AF011617 | Homo sapi | C 901 | 11 | 55.0 | 78 | 9 | AF189415 | AF189415 Homo sapi |
| C 829 | 11 | 55.0 | 63 | 9 | AF189377 | Homo sapi | C 902 | 11 | 55.0 | 78 | 9 | AF189431 | AF189431 Homo sapi |
| C 830 | 11 | 55.0 | 63 | 9 | AF189378 | Homo sapi | C 903 | 11 | 55.0 | 80 | 14 | AF040882 | AF040882 Hepatitis |
| C 831 | 11 | 55.0 | 63 | 9 | AF189383 | Homo sapi | C 904 | 11 | 55.0 | 81 | 6 | ARI26037 | ARI26037 Sequence |
| C 832 | 11 | 55.0 | 63 | 9 | AF189408 | Homo sapi | C 905 | 11 | 55.0 | 81 | 6 | ARI26038 | ARI26038 Sequence |
| C 833 | 11 | 55.0 | 63 | 9 | AF189436 | Homo sapi | C 906 | 11 | 55.0 | 81 | 6 | S80450 | S80450 V beta 23=C |
| C 834 | 11 | 55.0 | 64 | 6 | AX202679 | Sequence | C 907 | 11 | 55.0 | 81 | 9 | AF189392 | AF189392 Homo sapi |
| C 835 | 11 | 55.0 | 64 | 9 | AF189382 | Homo sapi | C 908 | 11 | 55.0 | 81 | 9 | AF189411 | AF189411 Homo sapi |
| C 836 | 11 | 55.0 | 66 | 9 | AF189386 | Homo sapi | C 909 | 11 | 55.0 | 81 | 9 | AF189427 | AF189427 Homo sapi |
| C 837 | 11 | 55.0 | 66 | 9 | AF189388 | Homo sapi | C 910 | 11 | 55.0 | 83 | 14 | AF390587 | AF390587 Hepatitis |
| C 838 | 11 | 55.0 | 66 | 9 | AF189389 | Homo sapi | C 911 | 11 | 55.0 | 83 | 6 | AX198011 | AX198011 Sequence |
| C 839 | 11 | 55.0 | 66 | 9 | AF189395 | Homo sapi | C 912 | 11 | 55.0 | 83 | 6 | AX208602 | AX208602 Sequence |
| C 840 | 11 | 55.0 | 66 | 9 | AF189396 | Homo sapi | C 913 | 11 | 55.0 | 87 | 3 | DME426921 | DME426921 Drosophila |
| C 841 | 11 | 55.0 | 66 | 9 | AF189398 | Homo sapi | C 914 | 11 | 55.0 | 87 | 6 | AX135351 | AX135351 Sequence |
| C 842 | 11 | 55.0 | 66 | 9 | AF189401 | Homo sapi | C 915 | 11 | 55.0 | 87 | 6 | E39208 | E39208 DNA encodin |
| C 843 | 11 | 55.0 | 66 | 9 | AF189403 | Homo sapi | C 916 | 11 | 55.0 | 87 | 9 | AY006162 | AY006162 Homo sapi |
| C 844 | 11 | 55.0 | 66 | 9 | AF189404 | Homo sapi | C 917 | 11 | 55.0 | 89 | 3 | DME426873 | DME426873 Drosophila |
| C 845 | 11 | 55.0 | 66 | 9 | AF189407 | Homo sapi | C 918 | 11 | 55.0 | 89 | 4 | MVB2LE | MVB2LE M. vison B-2 |
| C 846 | 11 | 55.0 | 66 | 9 | AF189417 | Homo sapi | C 919 | 11 | 55.0 | 90 | 9 | HUMERF9 | HUMERF9 Human mRNA |
| C 847 | 11 | 55.0 | 66 | 9 | AF189419 | Homo sapi | C 920 | 11 | 55.0 | 90 | 9 | AF189426 | AF189426 Homo sapi |
| C 848 | 11 | 55.0 | 66 | 9 | AF189421 | Homo sapi | C 921 | 11 | 55.0 | 91 | 3 | PVMSATF91 | PVMSATF91 P. vulgaris |
| C 849 | 11 | 55.0 | 66 | 9 | AF189422 | Homo sapi | C 922 | 11 | 55.0 | 91 | 9 | HSINOSX01 | HSINOSX01 Human indic |
| C 850 | 11 | 55.0 | 66 | 9 | AF189424 | Homo sapi | C 923 | 11 | 55.0 | 92 | 6 | AX034285 | AX034285 Sequence |
| C 851 | 11 | 55.0 | 66 | 9 | AF189425 | Homo sapi | C 924 | 11 | 55.0 | 92 | 6 | AX034333 | AX034333 Sequence |
| C 852 | 11 | 55.0 | 66 | 9 | AF189428 | Homo sapi | C 925 | 11 | 55.0 | 93 | 6 | ARI172475 | ARI172475 Sequence |
| C 853 | 11 | 55.0 | 66 | 6 | ARI171510 | Sequence | C 926 | 11 | 55.0 | 93 | 9 | AF117140 | AF117140 Homo sapi |
| C 854 | 11 | 55.0 | 69 | 6 | ARI17511 | Sequence | C 927 | 11 | 55.0 | 94 | 9 | HSAA11991 | HSAA11991 Homo sapi |
| C 855 | 11 | 55.0 | 69 | 6 | BD005530 | Sequence | C 928 | 11 | 55.0 | 95 | 6 | A69997 | A69997 Sequence 28 |
| C 856 | 11 | 55.0 | 69 | 6 | BD005531 | Sequence | C 929 | 11 | 55.0 | 95 | 6 | AX052905 | AX052905 Sequence |
| C 857 | 11 | 55.0 | 69 | 9 | S59974 | TAL1D1-prot | C 930 | 11 | 55.0 | 95 | 11 | HUMUT8002B | L30176 Human SYS U |
| C 858 | 11 | 55.0 | 69 | 9 | AF189371 | Homo sapi | C 931 | 11 | 55.0 | 96 | 6 | ARI07465 | ARI07465 Sequence |
| C 859 | 11 | 55.0 | 69 | 9 | AF189373 | Homo sapi | C 932 | 11 | 55.0 | 96 | 10 | AF041927 | AF041927 Mus muscu |
| C 860 | 11 | 55.0 | 69 | 9 | AF189374 | Homo sapi | C 933 | 11 | 55.0 | 97 | 3 | AF454676 | AF454676 Lasloglos |
| C 861 | 11 | 55.0 | 69 | 9 | AF189376 | Homo sapi | C 934 | 11 | 55.0 | 97 | 6 | AR017634 | AR017634 Sequence |
| C 862 | 11 | 55.0 | 69 | 9 | AF189380 | Homo sapi | C 935 | 11 | 55.0 | 97 | 6 | AR094811 | AR094811 Sequence |
| C 863 | 11 | 55.0 | 69 | 9 | AF189381 | Homo sapi | C 936 | 11 | 55.0 | 97 | 6 | ARI65470 | ARI65470 Sequence |
| C 864 | 11 | 55.0 | 69 | 9 | AF189384 | Homo sapi | C 937 | 11 | 55.0 | 98 | 6 | I35451 | I35451 Sequence 2 |
| C 865 | 11 | 55.0 | 69 | 9 | AF189385 | Homo sapi | C 938 | 11 | 55.0 | 99 | 4 | NVB2LA | NVB2LA M. vison B-2 |
| C 866 | 11 | 55.0 | 69 | 9 | AF189391 | Homo sapi | C 939 | 11 | 55.0 | 99 | 6 | AR018966 | AR018966 Sequence |
| C 867 | 11 | 55.0 | 69 | 9 | AF189393 | Homo sapi | C 940 | 11 | 55.0 | 99 | 6 | AR037715 | AR037715 Sequence |
| C 868 | 11 | 55.0 | 69 | 9 | AF189409 | Homo sapi | C 941 | 11 | 55.0 | 99 | 6 | I33723 | I33723 Sequence 11 |
| C 869 | 11 | 55.0 | 69 | 9 | AF189412 | Homo sapi | C 942 | 11 | 55.0 | 99 | 6 | I34662 | I34662 Sequence 11 |
| C 870 | 11 | 55.0 | 69 | 9 | AF189414 | Homo sapi | C 943 | 11 | 55.0 | 99 | 10 | MMG217 | MMG217 X81589 M. musculus |
| C 871 | 11 | 55.0 | 69 | 9 | AF189416 | Homo sapi | C 944 | 11 | 55.0 | 100 | 3 | AF411993 | AF411993 Formica e |
| C 872 | 11 | 55.0 | 69 | 9 | AF189432 | Homo sapi | C 945 | 10.8 | 54.0 | 17 | 6 | A75919 | A75919 Sequence 19 |
| C 873 | 11 | 55.0 | 69 | 9 | AF189438 | Homo sapi | C 946 | 10.8 | 54.0 | 17 | 6 | AR045619 | AR045619 Sequence |
| C 874 | 11 | 55.0 | 70 | 6 | I13489 | Sequence 23 | C 947 | 10.8 | 54.0 | 17 | 6 | AR048977 | AR048977 Sequence |
| C 875 | 11 | 55.0 | 72 | 9 | AF189390 | Homo sapi | C 948 | 10.8 | 54.0 | 17 | 6 | AR064278 | AR064278 Sequence |
| C 876 | 11 | 55.0 | 72 | 9 | AF189394 | Homo sapi | C 949 | 10.8 | 54.0 | 17 | 6 | ARI64671 | ARI64671 Sequence |

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| c 950 | 10.8 | 54.0 | 17 | 6 | AX272526 | Sequence |
| c 951 | 10.8 | 54.0 | 17 | 6 | AX272527 | Sequence |
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| c 953 | 10.8 | 54.0 | 17 | 6 | AX272715 | Sequence |
| c 954 | 10.8 | 54.0 | 17 | 6 | AX272715 | Sequence |
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| c 956 | 10.8 | 54.0 | 18 | 6 | AX272715 | Sequence |
| c 957 | 10.8 | 54.0 | 18 | 6 | AX272715 | Sequence |
| c 958 | 10.8 | 54.0 | 18 | 6 | AX272715 | Sequence |
| c 959 | 10.8 | 54.0 | 18 | 6 | AX272715 | Sequence |
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| c 962 | 10.8 | 54.0 | 18 | 6 | AX272715 | Sequence |
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| c 965 | 10.8 | 54.0 | 19 | 6 | AX272715 | Sequence |
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| c 967 | 10.8 | 54.0 | 20 | 6 | AX272715 | Sequence |
| c 968 | 10.8 | 54.0 | 20 | 6 | AX272715 | Sequence |
| c 969 | 10.8 | 54.0 | 20 | 6 | AX272715 | Sequence |
| c 970 | 10.8 | 54.0 | 20 | 6 | AX272715 | Sequence |
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| c 972 | 10.8 | 54.0 | 20 | 6 | AX272715 | Sequence |
| c 973 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 974 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 975 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 976 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 977 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 978 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 979 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 980 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 981 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 982 | 10.8 | 54.0 | 21 | 6 | AX272715 | Sequence |
| c 983 | 10.8 | 54.0 | 22 | 6 | AX272715 | Sequence |
| c 984 | 10.8 | 54.0 | 22 | 6 | AX272715 | Sequence |
| c 985 | 10.8 | 54.0 | 22 | 6 | AX272715 | Sequence |
| c 986 | 10.8 | 54.0 | 22 | 6 | AX272715 | Sequence |
| c 987 | 10.8 | 54.0 | 23 | 6 | AX272715 | Sequence |
| c 988 | 10.8 | 54.0 | 23 | 6 | AX272715 | Sequence |
| c 989 | 10.8 | 54.0 | 23 | 6 | AX272715 | Sequence |
| c 990 | 10.8 | 54.0 | 23 | 6 | AX272715 | Sequence |
| c 991 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 992 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 993 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 994 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 995 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 996 | 10.8 | 54.0 | 24 | 6 | AX272715 | Sequence |
| c 997 | 10.8 | 54.0 | 25 | 6 | AX272715 | Sequence |
| c 998 | 10.8 | 54.0 | 25 | 6 | AX272715 | Sequence |
| c 999 | 10.8 | 54.0 | 25 | 6 | AX272715 | Sequence |
| c 1000 | 10.8 | 54.0 | 25 | 6 | AX272715 | Sequence |

ALIGNMENTS

| | | | | | |
|------------|---|-------|-----|--------|-----------------|
| RESULT | 1 | 20 bp | DNA | linear | PAT 30-AUG-2001 |
| LOCUS | AX203404 | | | | |
| DEFINITION | Sequence 34 from Patent WO0153520. | | | | |
| ACCESSION | AX203404 | | | | |
| VERSION | AX203404.1 | | | | |
| KEYWORDS | GI:15392798 | | | | |
| SOURCE | human. | | | | |
| ORGANISM | Homo sapiens | | | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | | | |
| AUTHORS | Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo. | | | | |
| TITLE | 1 (bases 1 to 20) | | | | |
| JOURNAL | Cullen, P. and Seedorf, U. | | | | |
| FEATURES | Gene chip for neonate screening | | | | |
| | Patent: WO 0153520-A 34 26-JUL-2001; | | | | |
| | Cullen, Paul (DE) ; Seedorf, Udo (DE) | | | | |
| | Location/Qualifiers | | | | |

source 1.20
/Organism="Homo sapiens"
/db_xref="taxon:9606"

BASE COUNT 9 a 3 c 7 g 1 t
Query Match 77.0%; Score 15.4; DB 6; Length 20;
Best Local Similarity 94.1%; Pred. No. 4.2e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 gaagccagagctggaga 18
Db 3 GAAGCCAAAGCTGGAGA 19

RESULT 2
LOCUS AR099166 48 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 49 from patent US 6077692.
ACCESSION AR099166
VERSION AR099166.1 GI:12808932
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 48)
AUTHORS Ruben, S.M., Jimenez, P., Duan, D., Roxanne, Rampy, M.A., Mendrick, D., Zhang, J., Ni, J., Moore, P.A., Coleman, T.A., Gruber, J.R., Dillon, P.J. and Gentz, R.L.
Keratinocyte growth factor-2
Patent: US 6077692-A 49 20-JUN-2000;
Location/Qualifiers 1..48

TITLE
JOURNAL
FEATURES
source

BASE COUNT 9 a 8 c 20 g 11 t
ORIGIN

Query Match 72.0%; Score 14.4; DB 6; Length 48;
Best Local Similarity 93.8%; Pred. No. 1.3e+04;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 gaagccagagctggag 17
Db 12 GAAGCTAGAGCTGGAG 27

PAT 06-FEB-1997

RESULT 3
LOCUS I28179 32 bp DNA linear
DEFINITION Sequence 22 from patent US 5569586.
ACCESSION I28179
VERSION I28179.1 GI:1818955
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 32)
AUTHORS Pelletier, D.A. and Weisburg, W.G.
TITLE Nucleic acid probes for the detection of bacteria of the genus Legionella and methods for the detection of the etiological agents of Legionnaires' disease
JOURNAL Patent: US 5569586-A 22 29-OCT-1996;
FEATURES location/Qualifiers 1..32
source /Organism="unknown"
BASE COUNT 9 a 13 c 3 g 7 t
ORIGIN

Query Match 70.0%; Score 14; DB 6; Length 32;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 cagagctgagag 20
Db 14 CAGAGCTGAGAG 1

RESULT 4
AR057940
LOCUS AR057940 38 bp DNA
DEFINITION Sequence 2144 from patent US 5837542.
ACCESSION AR057940
VERSION AR057940.1 GI:5983517
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 38)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and Draper,K.G.
TITLE Intercellular adhesion molecule-1 (ICAM-1) ribozymes
JOURNAL Patent: US 5837542-A 2144 17-NOV-1998;
FEATURES Location/Qualifiers
source 1..38
BASE COUNT 11 a 7 c 16 g 4 t
ORIGIN

Query Match 69.0%; Score 13.8; DB 6; Length 38;
Best Local Similarity 88.2%; Pred. No. 2.7e+04;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctgagag 20
Db 1 AGCCAGAGCTGATGAG 17

RESULT 5
AR115698
LOCUS AR115698 38 bp DNA
DEFINITION Sequence 2144 from patent US 6132967.
ACCESSION AR115698
VERSION AR115698.1 GI:14096020
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 38)
AUTHORS Grimm,S., Stinchcomb,D.T., McSwigen,J., Sullivan,S. and Draper,K.G.
TITLE Ribozyme treatment of diseases or conditions related to levels of intercellular adhesion molecule-1 (ICAM-1)
JOURNAL Patent: US 6132967-A 2144 17-OCT-2000;
FEATURES Location/Qualifiers
source 1..38
BASE COUNT 11 a 7 c 16 g 4 t
ORIGIN

Query Match 69.0%; Score 13.8; DB 6; Length 38;
Best Local Similarity 88.2%; Pred. No. 2.7e+04;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctgagag 20
Db 1 AGCCAGAGCTGATGAG 17

RESULT 6
AR063762
LOCUS AR063762 44 bp DNA
DEFINITION Sequence 47 from patent US 5846720.
ACCESSION AR063762
VERSION AR063762.1 GI:5993070
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 44)
AUTHORS Foulkes,J.Gordon., Liechtfried,F.E., Pieler,C., Stephenson,J.R. and Case,C.C.
TITLE Methods of determining chemicals that modulate expression of genes associated with cardiovascular disease
JOURNAL Patent: US 5846720-A 47 08-DEC-1998;
FEATURES Location/Qualifiers
source 1..44
BASE COUNT 9 a 16 c 19 g 0 t
ORIGIN

Query Match 69.0%; Score 13.8; DB 6; Length 44;
Best Local Similarity 88.2%; Pred. No. 2.6e+04;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctgagag 20
Db 26 AGCCGAGCCGAGAGG 42

RESULT 7
I30125
LOCUS I30125 44 bp DNA
DEFINITION Sequence 47 from patent US 5580722.
ACCESSION I30125
VERSION I30125.1 GI:1820916
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 44)
AUTHORS Foulkes,J.Gordon., Liechtfried,F.E., Pieler,C., Stephenson,J.R. and Case,C.C.
TITLE Methods of determining chemicals that modulate transcriptionally expression of genes associated with cardiovascular disease
JOURNAL Patent: US 5580722-A 47 03-DEC-1996;
FEATURES Location/Qualifiers
source 1..44
BASE COUNT 9 a 16 c 19 g 0 t
ORIGIN

Query Match 69.0%; Score 13.8; DB 6; Length 44;
Best Local Similarity 88.2%; Pred. No. 2.6e+04;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctgagag 20
Db 26 AGCCGAGCCGAGAGG 42

RESULT 8
AX162651/c
LOCUS AX162651 51 bp DNA
DEFINITION Sequence 5979 from Patent W00140521.
ACCESSION AX162651
VERSION AX162651.1 GI:14543982
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 51)

[illegible]

| | |
|--------------------------|---|
| AUTHORS | Roos,B.A., Burns,D.M., Guy,H.A. and McKnight,G.L. |
| TITLE | PROCALCITONIN PEPTIDES |
| JOURNAL | Patent: WO 8910934-A 4 16-NOV-1989; |
| FEATURES | Location/Qualifiers |
| source | 1..63 |
| BASE COUNT | /organism="unknown" |
| ORIGIN | 17 a 14 c 10 g 22 t |
| Query Match | 68.0%; Score 13.6; DB 6; Length 63; |
| Best Local Similarity | 80.0%; Pred. No. 3.2e+04; |
| Matches 16; Conservative | 0; Mismatches 4; Indels 0; Gaps 0; |
| QY | 1 ggaagccagagctggagag 20 |
| Db | 59 GGTAGCCATACCTGGAGAAG 40 |
| RESULT 11 | |
| LOCUS | 109548 65 bp |
| DEFINITION | Sequence 3 from Patent WO 8910934. |
| ACCESSION | 109548 |
| VERSION | 109548.1 GI:587736 |
| KEYWORDS | |
| SOURCE | Unknown. |
| ORGANISM | Unclassified. |
| REFERENCE | 1 (bases 1 to 65) |
| AUTHORS | Roos,B.A., Burns,D.M., Guy,H.A. and McKnight,G.L. |
| TITLE | PROCALCITONIN PEPTIDES |
| JOURNAL | Patent: WO 8910934-A 3 16-NOV-1989; |
| FEATURES | Location/Qualifiers |
| source | 1..65 |
| BASE COUNT | /organism="unknown" |
| ORIGIN | 21 a 12 c 15 g 17 t |
| Query Match | 68.0%; Score 13.6; DB 6; Length 65; |
| Best Local Similarity | 80.0%; Pred. No. 3.2e+04; |
| Matches 16; Conservative | 0; Mismatches 4; Indels 0; Gaps 0; |
| QY | 1 ggaagccagagctggagag 20 |
| Db | 11 GGTAGCCATACCTGGAGAAG 30 |
| RESULT 12 | |
| LOCUS | AF46118852 82 bp |
| DEFINITION | Homo sapiens transferrin receptor 2 (TFR2) gene, intron 14. |
| ACCESSION | AF461189 |
| VERSION | AF461189.1 GI:18483171 |
| KEYWORDS | |
| SOURCE | 2 of 2 |
| ORGANISM | human. |
| REFERENCE | Homo sapiens |
| AUTHORS | Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |
| TITLE | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. |
| JOURNAL | 1 (bases 1 to 82) |
| REFERENCE | Mattman,A., Huntsman,D., Lockitch,G., Langlois,S., Buskard,N., |
| AUTHORS | Raisios,D., Butterfield,Y., Rodrigues,P., Jones,S., Porto,G., |
| TITLE | Marra,M., Desousa,M. and Vatcher,G.P. |
| JOURNAL | Transferrin Receptor 2 (TFR2) and HFE Mutational Analysis in |
| REFERENCE | Non-C828Y Iron Overload: Identification of a Novel TIR2 Mutation |
| AUTHORS | Unpublished |
| TITLE | 2 (bases 1 to 82) |
| JOURNAL | Vatcher,G.P. |
| REFERENCE | Direct Submission |
| AUTHORS | Submitted (19-DEC-2001) Genome Sequence Centre, BC Cancer Agency, |
| TITLE | 600 West 10th Avenue, Vancouver, BC V5Z4E6, Canada |

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| Db | 13 GGTAGCGAGAGCTGGGAGG 32 |
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| AX020690 | |
| LOCUS | AX020690 21 bp DNA linear PAT 07-SEP-2000 |
| DEFINITION | Sequence 190 from Patent WO934016. |
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| VERSION | AX020690.1 GI:10044388 |
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| ORGANISM | Homo sapiens |
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| | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. |
| REFERENCE | 1 (bases 1 to 21) |
| AUTHORS | Vider,B.Z. |
| TITLE | A method for identifying and characterizing cells and tissues |
| JOURNAL | Patent: WO 9934016-A 190 08-JUL-1999; |
| | GENENA LTD (IL); VIDER BEN ZION (IL) |
| FEATURES | location/qualifiers |
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| Db | 2 GGAAGTCAGAGCTGG 16 |
| RESULT 14 | |
| AX248940 | |
| LOCUS | AX248940 31 bp DNA linear PAT 28-SEP-2001 |
| DEFINITION | Sequence 1019 from Patent WO0166800. |
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| | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |
| | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. |
| REFERENCE | 1 (bases 1 to 31) |
| AUTHORS | Cargill,M., Ireland,J.S. and Lander,E.S. |
| TITLE | Human single nucleotide polymorphisms |
| JOURNAL | Patent: WO 0166800-A 1019 13-SEP-2001; |

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| FEATURES | WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US) | | | | | | | | | |
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| REFERENCE | Unclassified. | | | | | | | | | |
| AUTHORS | 1 (bases 1 to 56) | | | | | | | | | |
| | van Ooijen,A.J.T., Rietveld,K., Hoekema,A., Pen,T., Simons,P.C., | | | | | | | | | |
| | Verwoerd,T.C. and Quax,W.J. | | | | | | | | | |
| TITLE | Production of enzymes in seeds and their use | | | | | | | | | |
| JOURNAL | Patent: US 5543576-A 27 06-Aug-1996; | | | | | | | | | |
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GenCore version 4.5
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Scoring table: IDENTITY_NUC
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| C 39 | 13.4 | 67.0 | 89 | 22 | AAI47448 | Probe #7842 used t |
| C 40 | 13.4 | 67.0 | 89 | 22 | AAI07851 | Human cDNA clone-s |
| C 41 | 13.2 | 66.0 | 20 | 22 | AAK5034 | Human class II inv |
| C 42 | 13.2 | 66.0 | 45 | 15 | AAO69492 | Human class II inv |
| C 43 | 13.2 | 66.0 | 45 | 18 | AAAT63954 | Test sequence from |
| C 44 | 13.2 | 66.0 | 45 | 20 | AAAI7242 | Human silent SNP c |
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| C 48 | 13 | 65.0 | 24 | 24 | ABIB8744 | Capture oligonucle |
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| C 51 | 13 | 65.0 | 29 | 15 | AAO69703 | Human glucagon gen |
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| C 65 | 12.8 | 64.0 | 27 | 19 | AAAV6859 | Potato citrate syn |
| C 66 | 12.8 | 64.0 | 29 | 21 | AAAF00392 | Hammerhead ribozym |
| C 67 | 12.8 | 64.0 | 31 | 13 | AAQ26748 | Protease-A gene pr |
| C 68 | 12.8 | 64.0 | 33 | 19 | AAV36889 | Nucleotide sequenc |
| C 69 | 12.8 | 64.0 | 33 | 21 | AAAB63523 | PCR primer for CDN |
| C 70 | 12.8 | 64.0 | 33 | 22 | AAI66809 | ASK1 cDNA amplifly |
| C 71 | 12.8 | 64.0 | 36 | 16 | AAAT53100 | Mouse ICM hammerh |
| C 72 | 12.8 | 64.0 | 36 | 16 | AAAT52963 | Mouse ICM hammerh |
| C 73 | 12.8 | 64.0 | 40 | 21 | AAZ36109 | Polynucleotide seq |
| C 74 | 12.8 | 64.0 | 50 | 22 | AAAL27871 | Human SNP oligonuc |
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| C 76 | 12.8 | 64.0 | 51 | 22 | AAAT73277 | Human silent SNP c |
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| C 79 | 12.8 | 64.0 | 60 | 20 | AAAI12901 | Human prolamine PC |
| C 80 | 12.8 | 64.0 | 67 | 19 | AAAI1707 | Human biallelic po |
| C 81 | 12.8 | 64.0 | 67 | 19 | AAAI12870 | Human biallelic po |
| C 82 | 12.8 | 64.0 | 70 | 22 | AAAS43683 | Corneodesmosin sin |

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| 85 | 12.8 | 64.0 | 79 | 22 | AAK22229 | Human brain expres | c 158 | 12.2 | 61.0 | 22 | 21 | AAAF20092 | Human eosinophil m |
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| 87 | 12.8 | 64.0 | 79 | 22 | AAI54223 | Probe #22909 used | c 160 | 12.2 | 61.0 | 22 | 21 | AAA33970 | Low adenosine anti |
| 88 | 12.8 | 64.0 | 98 | 17 | AAI30887 | Primer 17 for 95 k | c 161 | 12.2 | 61.0 | 23 | 22 | AAAC68935 | EST-R89979 (mi61) |
| 89 | 12.8 | 64.0 | 99 | 21 | AAAC32283 | Human secreted pro | c 162 | 12.2 | 61.0 | 24 | 22 | AAI65021 | Serine/threonine d |
| 90 | 12.6 | 63.0 | 20 | 20 | AAK56817 | W09924023 probe 53 | c 163 | 12.2 | 61.0 | 24 | 22 | AB191352 | Capture oligonucle |
| 91 | 12.6 | 63.0 | 20 | 21 | AAZ77040 | Human biallelic ma | c 164 | 12.2 | 61.0 | 24 | 24 | AAI91353 | Capture oligonucle |
| 92 | 12.6 | 63.0 | 23 | 21 | AAA90371 | Human nek4 PCR pri | c 165 | 12.2 | 61.0 | 27 | 19 | AAV34512 | Human TNF receptor |
| 93 | 12.6 | 63.0 | 24 | 21 | AAA64549 | Nucleotide sequenc | c 166 | 12.2 | 61.0 | 27 | 21 | AAA28136 | PCR primer used to |
| 94 | 12.6 | 63.0 | 24 | 22 | AAK06764 | Genomic DNA PCR pr | c 167 | 12.2 | 61.0 | 29 | 21 | AAA71258 | Human KCR-2 cystei |
| 95 | 12.6 | 63.0 | 26 | 21 | AAZ50123 | PCR primer-4 for c | c 168 | 12.2 | 61.0 | 29 | 22 | AAAF31956 | PCR primer #1 for |
| 96 | 12.6 | 63.0 | 28 | 20 | AAK36143 | PCR primer used to | c 169 | 12.2 | 61.0 | 30 | 13 | AAQ32896 | Human apolipoprote |
| 97 | 12.6 | 63.0 | 30 | 22 | AAK06535 | Mouse microglia an | c 170 | 12.2 | 61.0 | 30 | 16 | AAQ83359 | Job-B antisense ol |
| 98 | 12.6 | 63.0 | 35 | 24 | AAZ26276 | Human caspase-12 m | c 171 | 12.2 | 61.0 | 30 | 18 | AAE62631 | Primer E343 for E6 |
| 99 | 12.6 | 63.0 | 36 | 21 | AAZ51353 | PCR primer used to | c 172 | 12.2 | 61.0 | 30 | 18 | AAE62635 | Primer ME34 for E6 |
| 100 | 12.6 | 63.0 | 39 | 22 | AAE29761 | Presentiline-1 gene | c 173 | 12.2 | 61.0 | 30 | 21 | AAZ35563 | Sense PCR primer f |
| 101 | 12.6 | 63.0 | 40 | 18 | AAE87260 | IL-4 2'E/NH2 RNA 1 | c 174 | 12.2 | 61.0 | 30 | 21 | AAZ35567 | PCR primer ME34 us |
| 102 | 12.6 | 63.0 | 47 | 16 | AAQ85510 | DNA probe 16 detec | c 175 | 12.2 | 61.0 | 31 | 19 | AAV67780 | Nucleotide fragmen |
| 103 | 12.6 | 63.0 | 47 | 16 | AAE87284 | Truncated IL-4 2'F | c 176 | 12.2 | 61.0 | 31 | 22 | AAI29927 | Human single nucle |
| 104 | 12.6 | 63.0 | 49 | 13 | AAQ25603 | NANBH detection pr | c 177 | 12.2 | 61.0 | 31 | 22 | AAI30045 | Human single nucle |
| 105 | 12.6 | 63.0 | 51 | 16 | AAE02904 | Alpha galactosyltr | c 178 | 12.2 | 61.0 | 31 | 22 | AAI30379 | Human single nucle |
| 106 | 12.6 | 63.0 | 51 | 22 | AAI33126 | Human SNP oligonuc | c 179 | 12.2 | 61.0 | 32 | 22 | AAAC86575 | Primer used to amp |
| 107 | 12.6 | 63.0 | 51 | 22 | AAI33282 | Human SNP oligonuc | c 180 | 12.2 | 61.0 | 33 | 22 | AAI71903 | PCR primer 3 for h |
| 108 | 12.6 | 63.0 | 51 | 22 | AAH38584 | Human SNP flanking | c 181 | 12.2 | 61.0 | 37 | 19 | AAV60750 | Primer #1 for huma |
| 109 | 12.6 | 63.0 | 58 | 16 | AAE02900 | Alpha galactosyltr | c 182 | 12.2 | 61.0 | 38 | 22 | AAH96120 | Human Chk1 ribozym |
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| 111 | 12.6 | 63.0 | 74 | 20 | AAK25627 | Human Sonic hedgeh | c 184 | 12.2 | 61.0 | 38 | 23 | ABK03876 | Human NCOG Hammerh |
| 112 | 12.6 | 63.0 | 74 | 20 | AAK25111 | Human Sonic hedgeh | c 185 | 12.2 | 61.0 | 40 | 22 | AAH25819 | Human/mouse lbat D |
| 113 | 12.6 | 63.0 | 74 | 20 | AAK16191 | Human Shn gene PCR | c 186 | 12.2 | 61.0 | 41 | 22 | AAI71905 | Probe 1 for human |
| 114 | 12.6 | 63.0 | 74 | 21 | AAAZ7886 | Human Sonic hedgeh | c 187 | 12.2 | 61.0 | 41 | 22 | ABA96356 | Human ribosome s19 |
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| 117 | 12.6 | 63.0 | 74 | 22 | AAI66794 | Human sonic hedgeh | c 190 | 12.2 | 61.0 | 51 | 21 | AAZ41858 | Primer SP2 used in |
| 118 | 12.6 | 63.0 | 74 | 22 | AAH28443 | PCR primer used to | c 191 | 12.2 | 61.0 | 51 | 21 | AAZ47097 | Primer SP2 for div |
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| 120 | 12.6 | 63.0 | 83 | 20 | AAZ59031 | Oligonucleotide A- | c 193 | 12.2 | 61.0 | 51 | 22 | AAI31578 | Human SNP oligonuc |
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| 122 | 12.6 | 63.0 | 86 | 16 | AAE20937 | Human gene signatu | c 195 | 12.2 | 61.0 | 51 | 22 | AAI73971 | Human silent SNP c |
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| 124 | 12.4 | 62.0 | 18 | 18 | AAK75619 | Mouse flt-1 VEGF r | c 197 | 12.2 | 61.0 | 51 | 22 | AAI77076 | Human silent SNP c |
| 125 | 12.4 | 62.0 | 20 | 19 | AAK77163 | Batten disease gen | c 198 | 12.2 | 61.0 | 51 | 22 | AAI77408 | Human silent SNP c |
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| 128 | 12.4 | 62.0 | 29 | 21 | AAA03801 | Polymorphic framge | c 201 | 12.2 | 61.0 | 51 | 22 | AAH89505 | Human coding sequ |
| 129 | 12.4 | 62.0 | 31 | 22 | AAE25070 | Primer AD108 used | c 202 | 12.2 | 61.0 | 51 | 22 | AAH79438 | Human DNA containi |
| 130 | 12.4 | 62.0 | 46 | 21 | AAA05621 | PCR primer hGH-2, | c 203 | 12.2 | 61.0 | 51 | 22 | AAH79445 | Human DNA containi |
| 131 | 12.4 | 62.0 | 50 | 15 | AAQ69616 | Chimpanzee beta-g1 | c 204 | 12.2 | 61.0 | 51 | 22 | AAH79523 | Human DNA containi |
| 132 | 12.4 | 62.0 | 50 | 18 | AAE64078 | Chimpanzee beta-g1 | c 205 | 12.2 | 61.0 | 51 | 22 | AAH25818 | Human/mouse lbat D |
| 133 | 12.4 | 62.0 | 50 | 20 | AAK17366 | Test sequence beta | c 206 | 12.2 | 61.0 | 51 | 23 | ABL00401 | Human silent nonco |
| 134 | 12.4 | 62.0 | 50 | 22 | AAI73276 | Human silent SNP c | c 207 | 12.2 | 61.0 | 51 | 23 | ABL00449 | Human silent nonco |
| 135 | 12.4 | 62.0 | 51 | 21 | AAK77208 | Human clone cg4396 | c 208 | 12.2 | 61.0 | 52 | 17 | AAK79608 | Capture extender 7 |
| 136 | 12.4 | 62.0 | 51 | 21 | AAK77209 | Human clone cg4396 | c 209 | 12.2 | 61.0 | 52 | 17 | AAV29842 | Immunoglobulin lea |
| 137 | 12.4 | 62.0 | 51 | 22 | AAE27077 | Human SNP oligonuc | c 210 | 12.2 | 61.0 | 54 | 17 | AAE50697 | Rabbit CCRP hairpi |
| 138 | 12.4 | 62.0 | 51 | 22 | AAE29467 | Human SNP oligonuc | c 211 | 12.2 | 61.0 | 54 | 18 | AAK70140 | Human flt1 VEGF re |
| 139 | 12.4 | 62.0 | 51 | 22 | ABL00103 | Human silent nonco | c 212 | 12.2 | 61.0 | 56 | 21 | AAZ32762 | Chimeric antibody |
| 140 | 12.4 | 62.0 | 64 | 16 | AAE23171 | Human gene signatu | c 213 | 12.2 | 61.0 | 57 | 20 | AAV72429 | Yeast Mf-alpha sig |
| 141 | 12.4 | 62.0 | 66 | 21 | AAA06552 | Oligonucleotide SE | c 214 | 12.2 | 61.0 | 59 | 17 | AAE38493 | Primer SP1 (Signal |
| 142 | 12.4 | 62.0 | 70 | 22 | AAK43743 | Cornedemosin sin | c 215 | 12.2 | 61.0 | 59 | 19 | AAV48239 | Primer SP1 used in |
| 143 | 12.2 | 61.0 | 17 | 18 | AAK74879 | Mouse flt-1 VEGF r | c 216 | 12.2 | 61.0 | 59 | 21 | AAA91857 | Primer SP1 used in |
| 144 | 12.2 | 61.0 | 17 | 21 | AAE02088 | Hammerhead ribozym | c 217 | 12.2 | 61.0 | 59 | 21 | AAZ96812 | S. cerevisiae gene |
| 145 | 12.2 | 61.0 | 17 | 21 | AAE02089 | Hammerhead ribozym | c 218 | 12.2 | 61.0 | 59 | 21 | AAZ47096 | Primer SP1 for div |
| 146 | 12.2 | 61.0 | 17 | 21 | AAE02089 | Single nucleotide | c 219 | 12.2 | 61.0 | 60 | 12 | AAQ10380 | Signal peptide-enc |
| 147 | 12.2 | 61.0 | 17 | 21 | AAE02089 | Single nucleotide | c 220 | 12.2 | 61.0 | 65 | 24 | AAE97100 | Humanised TRA-8 1i |
| 148 | 12.2 | 61.0 | 17 | 21 | AAE02089 | Single nucleotide | c 221 | 12.2 | 61.0 | 66 | 24 | ABA04565 | Human coding seque |
| 149 | 12.2 | 61.0 | 18 | 18 | AAK75596 | Mouse flt-1 VEGF r | c 222 | 12.2 | 61.0 | 67 | 22 | AAH76146 | Plasmid PAMVBT2 co |
| 150 | 12.2 | 61.0 | 20 | 24 | AAK75596 | Human RANK antisen | c 223 | 12.2 | 61.0 | 71 | 22 | AAH76145 | Plasmid PAMVBT2 co |
| 151 | 12.2 | 61.0 | 20 | 24 | AAI97391 | Capture Oligonucle | c 224 | 12.2 | 61.0 | 73 | 13 | AAQ30912 | Oligonucleotide 36 |
| 152 | 12.2 | 61.0 | 21 | 19 | AAV57659 | Exon 12 of an ENAC | c 225 | 12.2 | 61.0 | 76 | 22 | AAH76138 | Plasmid PAMVBT2 co |
| 153 | 12.2 | 61.0 | 21 | 20 | AAK36751 | PCR primer for hum | c 226 | 12.2 | 61.0 | 76 | 22 | AAH76141 | Plasmid PAMVBT2 co |
| 154 | 12.2 | 61.0 | 22 | 18 | AAE76127 | Human eosinophil m | c 227 | 12.2 | 61.0 | 76 | 22 | AAH76142 | Plasmid PAMVBT2 co |
| 155 | 12.2 | 61.0 | 22 | 20 | AAK54526 | Human major basic | c 228 | 12.2 | 61.0 | 77 | 13 | AAQ30911 | Oligonucleotide 36 |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|---------------------|-------|------|------|-----|----|-----------|---------------------|
| C 375 | 11.8 | 59.0 | 21 | 24 | ABA96252 | Human gliucoma dia | C 448 | 11.8 | 59.0 | 90 | 21 | AAC66494 | Chimaeric receptor |
| C 376 | 11.8 | 59.0 | 22 | 16 | AAO10041 | LRP1 primer specif | C 449 | 11.8 | 59.0 | 90 | 21 | AAC66495 | Chimaeric receptor |
| C 377 | 11.8 | 59.0 | 22 | 16 | AAO25970 | EPOR primer D, bin | C 450 | 11.8 | 59.0 | 90 | 21 | AAC68022 | Oligonucleotide A9 |
| C 378 | 11.8 | 59.0 | 22 | 21 | AA91880 | Sense primer to am | C 451 | 11.8 | 59.0 | 90 | 21 | AAC68023 | Oligonucleotide A9 |
| C 379 | 11.8 | 59.0 | 23 | 18 | AAV10746 | Human breast cance | C 452 | 11.8 | 59.0 | 90 | 22 | AAH24868 | Oligonucleotide fo |
| C 380 | 11.8 | 59.0 | 23 | 21 | AAAI3193 | PCR primer 944-966 | C 453 | 11.8 | 59.0 | 90 | 22 | AAH24869 | Oligonucleotide fo |
| C 381 | 11.8 | 59.0 | 23 | 24 | ABA96253 | Human gliucoma dia | C 454 | 11.8 | 59.0 | 90 | 22 | AAH24451 | Human primary sign |
| C 382 | 11.8 | 59.0 | 24 | 15 | AAO64599 | Primer for amplify | C 455 | 11.8 | 59.0 | 90 | 22 | AAH24452 | Human primary sign |
| C 383 | 11.8 | 59.0 | 24 | 15 | AAO64604 | Primer for amplify | C 456 | 11.8 | 59.0 | 90 | 22 | AAH24523 | Human primary sign |
| C 384 | 11.8 | 59.0 | 24 | 15 | AAO71487 | Primer for amplify | C 457 | 11.8 | 59.0 | 90 | 22 | AAH24524 | Human primary sign |
| C 385 | 11.8 | 59.0 | 24 | 15 | AAO71492 | Primer for amplify | C 458 | 11.8 | 59.0 | 91 | 21 | AAC26250 | Human secreted pro |
| C 386 | 11.8 | 59.0 | 24 | 18 | AAH88006 | Primer used in iso | C 459 | 11.8 | 59.0 | 100 | 24 | ABA05274 | Human IgD heavy c |
| C 387 | 11.8 | 59.0 | 24 | 18 | AAH84917 | Human Werner's syn | C 460 | 11.8 | 59.0 | 19 | 22 | AAH40489 | SNP specific upper |
| C 388 | 11.8 | 59.0 | 24 | 19 | AAV68389 | Human BAZ gene PCR | C 461 | 11.6 | 58.0 | 19 | 22 | AAV98586 | Human kinase marke |
| C 389 | 11.8 | 59.0 | 24 | 20 | AAV63683 | HIV-2 long termina | C 462 | 11.6 | 58.0 | 20 | 18 | AAV04423 | Primer for human c |
| C 390 | 11.8 | 59.0 | 24 | 21 | AAA96556 | Forward PCR primer | C 463 | 11.6 | 58.0 | 20 | 18 | AAV90405 | Mycobacterium tube |
| C 391 | 11.8 | 59.0 | 24 | 21 | AAA73989 | HIV primer 2LTRe | C 464 | 11.6 | 58.0 | 20 | 19 | AAV28529 | Streptococcal salI |
| C 392 | 11.8 | 59.0 | 24 | 21 | AAA74614 | HIV-2 PCR primer 2 | C 465 | 11.6 | 58.0 | 20 | 20 | AAV94922 | PCR primer used to |
| C 393 | 11.8 | 59.0 | 24 | 21 | AAA10637 | PCR primer #11 use | C 466 | 11.6 | 58.0 | 20 | 20 | AAV00833 | M. tuberculosis ka |
| C 394 | 11.8 | 59.0 | 24 | 21 | AAZ48237 | Mouse beta-actin 9 | C 467 | 11.6 | 58.0 | 20 | 21 | AAZ57617 | PCR primer used to |
| C 395 | 11.8 | 59.0 | 24 | 22 | AAV29762 | Presentiline-1 gene | C 468 | 11.6 | 58.0 | 20 | 22 | AAH06832 | SNP containing pro |
| C 396 | 11.8 | 59.0 | 24 | 22 | AAV29763 | Presentiline-1 gene | C 469 | 11.6 | 58.0 | 20 | 22 | AAH00588 | Escherichia coli d |
| C 397 | 11.8 | 59.0 | 25 | 18 | AAV92304 | Breast cancer tiss | C 470 | 11.6 | 58.0 | 20 | 24 | AB194302 | Capture oligonucle |
| C 398 | 11.8 | 59.0 | 25 | 15 | AAZ60692 | PCR primer used to | C 471 | 11.6 | 58.0 | 21 | 21 | AAC73280 | SNP flanking seque |
| C 399 | 11.8 | 59.0 | 26 | 15 | AAO56083 | PCR primer for amp | C 472 | 11.6 | 58.0 | 23 | 21 | AAC83364 | ASDRI exon 2 acce |
| C 400 | 11.8 | 59.0 | 26 | 15 | AAO73563 | PCR primer for bov | C 473 | 11.6 | 58.0 | 24 | 21 | AAAS5884 | PCR primer for DNA |
| C 401 | 11.8 | 59.0 | 27 | 15 | AAO57979 | Sequence of PCR pr | C 474 | 11.6 | 58.0 | 24 | 21 | AAAS17280 | Rt-PCR primer #1 f |
| C 402 | 11.8 | 59.0 | 27 | 22 | AAO91035 | PCR primer for Hum | C 475 | 11.6 | 58.0 | 24 | 24 | AB185174 | Capture oligonucle |
| C 403 | 11.8 | 59.0 | 28 | 14 | AAO39262 | Sequence of primer | C 476 | 11.6 | 58.0 | 24 | 24 | AB185175 | Human tumour necro |
| C 404 | 11.8 | 59.0 | 28 | 14 | AAO39266 | Sequence of primer | C 477 | 11.6 | 58.0 | 25 | 18 | AAV76386 | Human tumour necro |
| C 405 | 11.8 | 59.0 | 28 | 16 | AAO39266 | Eco-env amplifying | C 478 | 11.6 | 58.0 | 25 | 20 | AAV54535 | Tumour necrosis fa |
| C 406 | 11.8 | 59.0 | 29 | 21 | AAO39266 | Polymorphic fragme | C 479 | 11.6 | 58.0 | 25 | 21 | AAV20101 | Human tumour necro |
| C 407 | 11.8 | 59.0 | 29 | 21 | AAZ45130 | 3'truncEPCR primer | C 480 | 11.6 | 58.0 | 25 | 21 | AAV91769 | Inhibin Alpha frag |
| C 408 | 11.8 | 59.0 | 30 | 16 | AAO85315 | C-terminal primer | C 481 | 11.6 | 58.0 | 25 | 21 | AAV33979 | Low adenosine anti |
| C 409 | 11.8 | 59.0 | 30 | 16 | AAO85315 | C-jun coding regio | C 482 | 11.6 | 58.0 | 25 | 22 | AAV22142 | Human COL1A2 PCR p |
| C 410 | 11.8 | 59.0 | 30 | 18 | AAV66192 | C-terminal primer | C 483 | 11.6 | 58.0 | 25 | 22 | AAC84290 | Signal transductio |
| C 411 | 11.8 | 59.0 | 30 | 20 | AAV08167 | PCR primer for GST | C 484 | 11.6 | 58.0 | 26 | 22 | AAC90288 | Primer #2 used for |
| C 412 | 11.8 | 59.0 | 30 | 21 | AAZ49286 | C-jun PCR primer, | C 485 | 11.6 | 58.0 | 26 | 24 | AB182138 | p3 mutation detec |
| C 413 | 11.8 | 59.0 | 30 | 21 | AAZ45130 | PCR primer 6 used | C 486 | 11.6 | 58.0 | 28 | 20 | AAV36230 | Primer used for se |
| C 414 | 11.8 | 59.0 | 30 | 22 | AAV55602 | C-terminal primer | C 487 | 11.6 | 58.0 | 29 | 13 | AAO29733 | 388 VJL-human C-ka |
| C 415 | 11.8 | 59.0 | 31 | 19 | AAV45569 | Human IBL gene int | C 488 | 11.6 | 58.0 | 29 | 19 | AAV63912 | Helicobacter pylor |
| C 416 | 11.8 | 59.0 | 31 | 19 | AAV67916 | Nucleotide fragmen | C 489 | 11.6 | 58.0 | 29 | 19 | AAV58369 | Probe for coding s |
| C 417 | 11.8 | 59.0 | 31 | 17 | AAV06229 | Human biallelic po | C 490 | 11.6 | 58.0 | 29 | 21 | AAV03872 | Polymorphic fragme |
| C 418 | 11.8 | 59.0 | 36 | 17 | AAV66666 | Human CD40 Hammet | C 491 | 11.6 | 58.0 | 29 | 21 | AAV03897 | Polymorphic fragme |
| C 419 | 11.8 | 59.0 | 38 | 21 | AAV94048 | Human hCDR6 exon 4 | C 492 | 11.6 | 58.0 | 30 | 21 | AAV04020 | Human NCOG DNazyme |
| C 420 | 11.8 | 59.0 | 38 | 23 | ABK03809 | Human NCOG Hammet | C 493 | 11.6 | 58.0 | 32 | 20 | AAH89218 | Human NF-E2 relate |
| C 421 | 11.8 | 59.0 | 38 | 23 | ABK08191 | Human CD20 Inozyme | C 494 | 11.6 | 58.0 | 31 | 19 | AAV67615 | Human homo lamelin |
| C 422 | 11.8 | 59.0 | 41 | 24 | ABA94306 | Mouse cloaked-2 CD | C 495 | 11.6 | 58.0 | 31 | 20 | AAV15545 | PCR primer used in |
| C 423 | 11.8 | 59.0 | 42 | 21 | AAV95679 | Bacillus subtilis | C 496 | 11.6 | 58.0 | 31 | 20 | AAV81264 | Marline ligand poly |
| C 424 | 11.8 | 59.0 | 42 | 21 | AAV95693 | Bacillus subtilis | C 497 | 11.6 | 58.0 | 31 | 23 | ABK06052 | Human NCOG DNazyme |
| C 425 | 11.8 | 59.0 | 43 | 20 | AAV74091 | Plasmid pET-CBD1-2 | C 498 | 11.6 | 58.0 | 31 | 23 | ABK06191 | Human NCOG DNazyme |
| C 426 | 11.8 | 59.0 | 43 | 24 | AAI69138 | Activated T-cell d | C 499 | 11.6 | 58.0 | 33 | 22 | AAI65337 | Human NF-E2 relate |
| C 427 | 11.8 | 59.0 | 47 | 21 | AAZ65732 | Human map-related | C 500 | 11.6 | 58.0 | 33 | 22 | AAH75427 | Human homo lamelin |
| C 428 | 11.8 | 59.0 | 47 | 21 | AAZ67078 | Human map-related | C 501 | 11.6 | 58.0 | 34 | 19 | AAV18640 | Homo sapiens BAP-1 |
| C 429 | 11.8 | 59.0 | 47 | 21 | AAZ27850 | Adenovirus-2 pent | C 502 | 11.6 | 58.0 | 34 | 22 | AAV24678 | PCR primer used to |
| C 430 | 11.8 | 59.0 | 47 | 23 | AAH88622 | CNS disorder-relat | C 503 | 11.6 | 58.0 | 35 | 22 | AAV30998 | Prepro-somatostati |
| C 431 | 11.8 | 59.0 | 49 | 21 | AAAC69816 | E. coli ebgr SELEX | C 504 | 11.6 | 58.0 | 36 | 17 | AAV31186 | Interleukin-2 gene |
| C 432 | 11.8 | 59.0 | 50 | 21 | AAV77403 | Human clone cg4492 | C 505 | 11.6 | 58.0 | 36 | 19 | AAV60223 | 3' PCR primer used |
| C 433 | 11.8 | 59.0 | 50 | 22 | AAI77047 | Human silent SNP c | C 506 | 11.6 | 58.0 | 36 | 19 | AAV42467 | PCR primer used to |
| C 434 | 11.8 | 59.0 | 51 | 21 | AAI77402 | Human clone cg4492 | C 507 | 11.6 | 58.0 | 36 | 20 | AAV70787 | 3' PCR primer hIL- |
| C 435 | 11.8 | 59.0 | 51 | 22 | AAI32792 | Human SNP oligonuc | C 508 | 11.6 | 58.0 | 36 | 21 | AAV50244 | Primer PT-ATG-NdeI |
| C 436 | 11.8 | 59.0 | 51 | 22 | AAI77046 | Human silent SNP c | C 509 | 11.6 | 58.0 | 36 | 21 | AAV60601 | PCR primer used to |
| C 437 | 11.8 | 59.0 | 51 | 22 | AAH79989 | Human DNA contain | C 510 | 11.6 | 58.0 | 36 | 21 | AAV29887 | Human interleukin |
| C 438 | 11.8 | 59.0 | 52 | 13 | AAO68894 | Human oligo 1 to c | C 511 | 11.6 | 58.0 | 36 | 21 | AAV29887 | Human interleukin |
| C 439 | 11.8 | 59.0 | 53 | 13 | AAO21426 | HIV-2 TAR transcri | C 512 | 11.6 | 58.0 | 37 | 13 | AAO24159 | PCR primer based o |
| C 440 | 11.8 | 59.0 | 53 | 18 | AAV92903 | Tat responsive ele | C 513 | 11.6 | 58.0 | 37 | 21 | AAV83774 | SNORF36 receptor i |
| C 441 | 11.8 | 59.0 | 61 | 14 | AAO45799 | Sequence of non-re | C 514 | 11.6 | 58.0 | 38 | 21 | AAV68507 | Periplakin gene SN |
| C 442 | 11.8 | 59.0 | 61 | 21 | AAV52535 | Human MN promoter | C 515 | 11.6 | 58.0 | 40 | 18 | AAV74711 | J63 used in const |
| C 443 | 11.8 | 59.0 | 61 | 21 | AAAI6616 | MN genomic region | C 516 | 11.6 | 58.0 | 42 | 13 | AAO40993 | Polylinker. Synth |
| C 444 | 11.8 | 59.0 | 86 | 22 | AAK17868 | Human brain expres | C 517 | 11.6 | 58.0 | 42 | 13 | AAO40993 | Polylinker. Synth |
| C 445 | 11.8 | 59.0 | 86 | 22 | AAV73728 | HGF nucleic acid 1 | C 518 | 11.6 | 58.0 | 42 | 18 | AAV93096 | Streptomyces fireo |
| C 446 | 11.8 | 59.0 | 90 | 11 | AAO05249 | Probe to gene enco | C 519 | 11.6 | 58.0 | 42 | 18 | AAV25926 | Streptomyces fireo |
| C 447 | 11.8 | 59.0 | 90 | 19 | AAV37923 | Platelet derived e | C 520 | 11.6 | 58.0 | 44 | 20 | AAV24078 | Human 53BP2 DNA PC |

| | | | | | | | | | | | | | |
|-----|------|------|-----|----|----------|---------------------|-------|------|------|----|----|-----------|--------------------|
| 521 | 11.6 | 58.0 | 45 | 20 | AAH80106 | Human PRO357 probe | c 594 | 11.4 | 57.0 | 17 | 21 | AAH07241 | Hammerhead ribozym |
| 522 | 11.6 | 58.0 | 45 | 21 | AAA46927 | Probe used to score | c 595 | 11.4 | 57.0 | 18 | 18 | AAH73491 | Mouse flk-1 VEGF r |
| 523 | 11.6 | 58.0 | 45 | 21 | AAA49512 | Probe for cDNA enc | c 596 | 11.4 | 57.0 | 18 | 18 | AAH71735 | Human KDR VEGF rec |
| 524 | 11.6 | 58.0 | 45 | 21 | ABH82139 | p53 mutation detec | c 597 | 11.4 | 57.0 | 18 | 19 | AAH09135 | Human biallelic po |
| 525 | 11.6 | 58.0 | 47 | 21 | AAH68473 | Human map-related | c 598 | 11.4 | 57.0 | 18 | 21 | AAH27271 | Single nucleotide |
| 526 | 11.6 | 58.0 | 47 | 23 | AAH88580 | CNS disorder-relat | c 599 | 11.4 | 57.0 | 18 | 21 | AAH2746 | Single nucleotide |
| 527 | 11.6 | 58.0 | 50 | 22 | AAH54409 | Human SNP oligonuc | c 600 | 11.4 | 57.0 | 18 | 21 | AAH2758 | Single nucleotide |
| 528 | 11.6 | 58.0 | 50 | 22 | AAH76433 | Human silent SNP c | c 601 | 11.4 | 57.0 | 18 | 21 | AAH2782 | Single nucleotide |
| 529 | 11.6 | 58.0 | 51 | 21 | AAH52940 | Hammerhead ribozym | c 602 | 11.4 | 57.0 | 19 | 15 | AAH073410 | Heavy chain specif |
| 530 | 11.6 | 58.0 | 51 | 22 | AAH27655 | Human SNP oligonuc | c 603 | 11.4 | 57.0 | 19 | 20 | AAH18332 | PCR primer for tel |
| 531 | 11.6 | 58.0 | 51 | 22 | AAH31653 | Human SNP oligonuc | c 604 | 11.4 | 57.0 | 19 | 20 | AAH18333 | PCR primer for tel |
| 532 | 11.6 | 58.0 | 51 | 22 | AAH32631 | Human SNP oligonuc | c 605 | 11.4 | 57.0 | 19 | 24 | AAH18881 | Growth hormone 1 g |
| 533 | 11.6 | 58.0 | 51 | 22 | AAH35523 | Human SNP oligonuc | c 606 | 11.4 | 57.0 | 20 | 18 | AAH95825 | Primer used in gro |
| 534 | 11.6 | 58.0 | 51 | 22 | AAH73622 | Human silent SNP c | c 607 | 11.4 | 57.0 | 20 | 21 | AAH48880 | Complementary huma |
| 535 | 11.6 | 58.0 | 51 | 22 | AAH75810 | Human silent SNP c | c 608 | 11.4 | 57.0 | 20 | 18 | AAH48883 | Complementary huma |
| 536 | 11.6 | 58.0 | 51 | 22 | AAH75811 | Human silent SNP c | c 609 | 11.4 | 57.0 | 20 | 20 | AAH224783 | Human soluble prot |
| 537 | 11.6 | 58.0 | 51 | 22 | AAH77096 | Human silent SNP c | c 610 | 11.4 | 57.0 | 20 | 20 | AAH06741 | Human JAGGED1 gene |
| 538 | 11.6 | 58.0 | 51 | 22 | AAH77327 | Human silent SNP c | c 611 | 11.4 | 57.0 | 20 | 21 | AAH55729 | TRAF1 antisense ol |
| 539 | 11.6 | 58.0 | 51 | 22 | AAH89437 | Human coding sequ | c 612 | 11.4 | 57.0 | 20 | 21 | AAH55730 | TRAF1 antisense ol |
| 540 | 11.6 | 58.0 | 51 | 22 | AAH89520 | Human coding sequ | c 613 | 11.4 | 57.0 | 20 | 21 | AAH523493 | Clone vP8.1 hybrid |
| 541 | 11.6 | 58.0 | 51 | 22 | AAH00540 | Human silent nonco | c 614 | 11.4 | 57.0 | 20 | 21 | AAH529203 | First strand cDNA |
| 542 | 11.6 | 58.0 | 54 | 17 | AAH33230 | Zipper domain cons | c 615 | 11.4 | 57.0 | 20 | 24 | AAH59494 | C. glutamicum ATCC |
| 543 | 11.6 | 58.0 | 55 | 15 | AAH07831 | Murine Interleukin | c 616 | 11.4 | 57.0 | 20 | 24 | AAH598015 | Murine SAC1 gene-s |
| 544 | 11.6 | 58.0 | 55 | 20 | AAH08499 | Murine Interleukin | c 617 | 11.4 | 57.0 | 21 | 20 | AAH15030 | Antisense PCR prim |
| 545 | 11.6 | 58.0 | 56 | 24 | AAH94238 | PCR amplified shig | c 618 | 11.4 | 57.0 | 21 | 20 | AAH15031 | Sense PCR primer u |
| 546 | 11.6 | 58.0 | 66 | 17 | AAH33231 | Zipper domain cons | c 619 | 11.4 | 57.0 | 21 | 21 | AAH15009 | Probe used to isol |
| 547 | 11.6 | 58.0 | 77 | 16 | AAH20428 | Human gene signatu | c 620 | 11.4 | 57.0 | 21 | 21 | AAH17641 | Intronic primer (I |
| 548 | 11.6 | 58.0 | 77 | 22 | AAH6617 | Human foetal liver | c 621 | 11.4 | 57.0 | 21 | 21 | AAH29065 | Sense PCR primer f |
| 549 | 11.6 | 58.0 | 77 | 22 | AAH41124 | Probe #19590 for g | c 622 | 11.4 | 57.0 | 21 | 22 | AAH27045 | Interleukin 10 rec |
| 550 | 11.6 | 58.0 | 77 | 22 | AAH25252 | Human brain expres | c 623 | 11.4 | 57.0 | 21 | 22 | AAH27045 | Human GRP gene sp |
| 551 | 11.6 | 58.0 | 77 | 22 | AAH51259 | Human bone marrow | c 624 | 11.4 | 57.0 | 21 | 23 | AAH89199 | Human polymorphic |
| 552 | 11.6 | 58.0 | 77 | 22 | AAH28269 | Probe #18202 for g | c 625 | 11.4 | 57.0 | 22 | 16 | AAH084076 | Antisense oligonuc |
| 553 | 11.6 | 58.0 | 77 | 22 | AAH57316 | Probe #26002 used | c 626 | 11.4 | 57.0 | 22 | 16 | AAH084123 | Antisense oligonuc |
| 554 | 11.6 | 58.0 | 77 | 22 | AAH45201 | Retroviral vector | c 627 | 11.4 | 57.0 | 22 | 18 | AAH48882 | Complementary huma |
| 555 | 11.6 | 58.0 | 78 | 22 | AAH45202 | Retroviral vector | c 628 | 11.4 | 57.0 | 22 | 18 | AAH71123 | Oligonucleotide to |
| 556 | 11.6 | 58.0 | 79 | 13 | AAH33857 | Sequence upstream | c 629 | 11.4 | 57.0 | 22 | 20 | AAH80427 | HIV replication in |
| 557 | 11.6 | 58.0 | 79 | 16 | AAH06071 | Insulin receptor 1 | c 630 | 11.4 | 57.0 | 22 | 20 | AAH80393 | HIV replication in |
| 558 | 11.6 | 58.0 | 79 | 22 | AAH45203 | Retroviral vector | c 631 | 11.4 | 57.0 | 22 | 21 | AAH49425 | Primer used for am |
| 559 | 11.6 | 58.0 | 80 | 19 | AAH11551 | Human biallelic po | c 632 | 11.4 | 57.0 | 23 | 21 | AAH237003 | Probe for peripher |
| 560 | 11.6 | 58.0 | 80 | 21 | AAH24788 | PCR primer used in | c 633 | 11.4 | 57.0 | 24 | 20 | AAH25095 | PCR primer used to |
| 561 | 11.6 | 58.0 | 81 | 22 | AAH73489 | Human foetal liver | c 634 | 11.4 | 57.0 | 24 | 21 | AAH249650 | PCR primer-6 to 1s |
| 562 | 11.6 | 58.0 | 81 | 22 | AAH21931 | Human brain expres | c 635 | 11.4 | 57.0 | 25 | 18 | AAH248873 | Complementary huma |
| 563 | 11.6 | 58.0 | 81 | 22 | AAH48095 | Human bone marrow | c 636 | 11.4 | 57.0 | 25 | 19 | AAH37688 | Antisense probe co |
| 564 | 11.6 | 58.0 | 81 | 22 | AAH53923 | Probe #22609 used | c 637 | 11.4 | 57.0 | 25 | 20 | AAH01902 | HIV-1 5'LTR primer |
| 565 | 11.6 | 58.0 | 83 | 16 | AAH23150 | Human gene signatu | c 638 | 11.4 | 57.0 | 25 | 21 | AAH39018 | Probe for peripher |
| 566 | 11.6 | 58.0 | 83 | 22 | AAH50083 | Human breast cell | c 639 | 11.4 | 57.0 | 25 | 21 | AAH29956 | Corynebacterium gl |
| 567 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 640 | 11.4 | 57.0 | 25 | 21 | AAH29956 | PCR primer 15 spec |
| 568 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 640 | 11.4 | 57.0 | 25 | 21 | AAH29956 | Antisense PCR prim |
| 569 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 641 | 11.4 | 57.0 | 25 | 22 | AAH21305 | Human MDR-1 allele |
| 570 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 642 | 11.4 | 57.0 | 25 | 24 | AAH18878 | Growth hormone 1 g |
| 571 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 643 | 11.4 | 57.0 | 26 | 15 | AAH071249 | Human somatotropin |
| 572 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 644 | 11.4 | 57.0 | 27 | 19 | AAH24299 | Human erythrocyte |
| 573 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 645 | 11.4 | 57.0 | 27 | 19 | AAH24299 | AE14 forward PCR p |
| 574 | 11.6 | 58.0 | 83 | 22 | AAH68019 | Human foetal liver | c 646 | 11.4 | 57.0 | 27 | 24 | AAH681971 | HLA-A capture olig |
| 575 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 647 | 11.4 | 57.0 | 28 | 21 | AAH39828 | Human growth hormo |
| 576 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 648 | 11.4 | 57.0 | 28 | 22 | AAH30740 | Human psk-1 gene a |
| 577 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 649 | 11.4 | 57.0 | 29 | 21 | AAH04249 | Polymorphic fragme |
| 578 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 650 | 11.4 | 57.0 | 29 | 22 | AAH25069 | Primer AD107 used |
| 579 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 651 | 11.4 | 57.0 | 30 | 20 | AAH50916 | PCR 5' sense prime |
| 580 | 11.6 | 58.0 | 84 | 22 | AAH68019 | Human foetal liver | c 652 | 11.4 | 57.0 | 30 | 22 | AAH25068 | Primer AD106 used |
| 581 | 11.6 | 58.0 | 86 | 21 | AAH68019 | Human foetal liver | c 653 | 11.4 | 57.0 | 31 | 21 | AAH68949 | Human gastrointest |
| 582 | 11.6 | 58.0 | 86 | 21 | AAH68019 | Human foetal liver | c 654 | 11.4 | 57.0 | 31 | 21 | AAH68949 | Human genomic DNA |
| 583 | 11.6 | 58.0 | 93 | 21 | AAH68019 | Human foetal liver | c 655 | 11.4 | 57.0 | 31 | 21 | AAH68950 | Human genomic DNA |
| 584 | 11.6 | 58.0 | 96 | 18 | AAH68019 | Human foetal liver | c 656 | 11.4 | 57.0 | 31 | 21 | AAH68951 | Human genomic DNA |
| 585 | 11.6 | 58.0 | 100 | 15 | AAH68019 | Human foetal liver | c 657 | 11.4 | 57.0 | 31 | 21 | AAH68951 | Oligo 9, used to a |
| 586 | 11.6 | 58.0 | 100 | 15 | AAH68019 | Human foetal liver | c 658 | 11.4 | 57.0 | 31 | 21 | AAH68951 | Primer VR5 used to |
| 587 | 11.6 | 58.0 | 100 | 15 | AAH68019 | Human foetal liver | c 659 | 11.4 | 57.0 | 31 | 21 | AAH68951 | Primer VR5 used to |
| 588 | 11.6 | 58.0 | 100 | 22 | AAH68019 | Human foetal liver | c 660 | 11.4 | 57.0 | 31 | 22 | AAH91025 | Human inflammatory |
| 589 | 11.6 | 58.0 | 100 | 22 | AAH68019 | Human foetal liver | c 661 | 11.4 | 57.0 | 33 | 19 | AAH44166 | Human cytochrome p |
| 590 | 11.6 | 58.0 | 100 | 22 | AAH68019 | Human foetal liver | c 662 | 11.4 | 57.0 | 33 | 19 | AAH44166 | Human cytochrome p |
| 591 | 11.4 | 57.0 | 15 | 22 | AAH68019 | Human foetal liver | c 663 | 11.4 | 57.0 | 33 | 20 | AAH21961 | Primer BB2 for hum |
| 592 | 11.4 | 57.0 | 15 | 22 | AAH68019 | Human foetal liver | c 664 | 11.4 | 57.0 | 33 | 20 | AAH21961 | Human growth hormo |
| 593 | 11.4 | 57.0 | 17 | 18 | AAH68019 | Human foetal liver | c 665 | 11.4 | 57.0 | 36 | 22 | AAH56602 | Human growth hormo |
| 594 | 11.4 | 57.0 | 17 | 18 | AAH68019 | Human foetal liver | c 666 | 11.4 | 57.0 | 38 | 17 | AAH17582 | PCR primer PMC96 u |

| | | | | | | | | | | | | | |
|-------|------|------|----|----|-----------|---------------------|-------|------|------|----|----|-----------|----------------------|
| C 667 | 11.4 | 57.0 | 39 | 19 | AAV56439 | Human ICM-R cDNA | C 740 | 11.2 | 56.0 | 20 | 22 | AAV59896 | Human protein kinase |
| C 668 | 11.4 | 57.0 | 39 | 20 | AAV21892 | Primer for antibody | C 741 | 11.2 | 56.0 | 21 | 16 | AAO81749 | Mouse syndecan-1 g |
| C 669 | 11.4 | 57.0 | 39 | 21 | AAA97181 | Oligonucleotide IC | C 742 | 11.2 | 56.0 | 21 | 16 | AAO81750 | Mouse syndecan-1 g |
| C 670 | 11.4 | 57.0 | 39 | 21 | AAA08327 | ICM-R mutagenic o | C 743 | 11.2 | 56.0 | 21 | 19 | AAV67338 | Nucleotide fragmen |
| C 671 | 11.4 | 57.0 | 39 | 21 | AAZ24353 | Human ICM-1 oligo | C 744 | 11.2 | 56.0 | 21 | 21 | AAV97528 | pltnus/Rbsck-DH-3 |
| C 672 | 11.4 | 57.0 | 39 | 22 | AAV31960 | Human ICM-1 mutag | C 745 | 11.2 | 56.0 | 21 | 22 | AAH49094 | Human GALT gene as |
| C 673 | 11.4 | 57.0 | 40 | 20 | AAV84662 | PCR primer used to | C 746 | 11.2 | 56.0 | 21 | 22 | AAH22675 | Heparanase-like pr |
| C 674 | 11.4 | 57.0 | 41 | 22 | AAH75485 | Human ribosome pro | C 747 | 11.2 | 56.0 | 21 | 22 | AAH22675 | Human R1S homology |
| C 675 | 11.4 | 57.0 | 41 | 22 | AAH75486 | Human ribosome pro | C 748 | 11.2 | 56.0 | 22 | 17 | AAO72784 | Primer RAP3 for am |
| C 676 | 11.4 | 57.0 | 42 | 21 | AAH74785 | Human growth hormo | C 749 | 11.2 | 56.0 | 22 | 17 | AAH74784 | Beta-globin gene f |
| C 677 | 11.4 | 57.0 | 43 | 21 | AAA05639 | Oligonucleotide SE | C 750 | 11.2 | 56.0 | 22 | 18 | AAV64866 | Microtubule-associ |
| C 678 | 11.4 | 57.0 | 44 | 22 | AAV59452 | Human growth hormo | C 751 | 11.2 | 56.0 | 22 | 19 | AAV65655 | PCR primer used to |
| C 679 | 11.4 | 57.0 | 44 | 22 | AAV59454 | Npro-HGH fusion pr | C 752 | 11.2 | 56.0 | 22 | 20 | AAV37096 | EMF associated pro |
| C 680 | 11.4 | 57.0 | 45 | 15 | AAO69485 | Human P-glycoprote | C 753 | 11.2 | 56.0 | 22 | 21 | AAA38501 | Human beta-globin |
| C 681 | 11.4 | 57.0 | 45 | 18 | AAV63947 | Human P-glycoprote | C 754 | 11.2 | 56.0 | 23 | 14 | AAO40181 | Sequence of primer |
| C 682 | 11.4 | 57.0 | 45 | 20 | AAV17235 | Test sequence from | C 755 | 11.2 | 56.0 | 23 | 14 | AAO40182 | Sequence of primer |
| C 683 | 11.4 | 57.0 | 45 | 21 | AAV27564 | Human growth hormo | C 756 | 11.2 | 56.0 | 23 | 14 | AAO40189 | Sequence of primer |
| C 684 | 11.4 | 57.0 | 45 | 22 | AAV82165 | Human retrovirus D | C 757 | 11.2 | 56.0 | 23 | 14 | AAO40190 | Sequence of primer |
| C 685 | 11.4 | 57.0 | 47 | 21 | AAV65347 | Human map-related | C 758 | 11.2 | 56.0 | 23 | 22 | AAV91104 | Human heparanase, |
| C 686 | 11.4 | 57.0 | 49 | 18 | AAV80471 | Hepatoma AS-30D Ty | C 759 | 11.2 | 56.0 | 24 | 15 | AAO74318 | Human IgG-3 exon M |
| C 687 | 11.4 | 57.0 | 50 | 22 | AAV31994 | Human SNP oligonuc | C 760 | 11.2 | 56.0 | 24 | 16 | AAO76229 | Primer for amplifi |
| C 688 | 11.4 | 57.0 | 50 | 22 | AAV34597 | Human SNP oligonuc | C 761 | 11.2 | 56.0 | 24 | 16 | AAO94134 | Human mpl ligand i |
| C 689 | 11.4 | 57.0 | 50 | 22 | AAV78719 | Human silent SNP c | C 762 | 11.2 | 56.0 | 24 | 16 | AAO94135 | Human mpl ligand i |
| C 690 | 11.4 | 57.0 | 51 | 22 | AAV29828 | Human SNP oligonuc | C 763 | 11.2 | 56.0 | 24 | 18 | AAV05346 | PCR primer used to |
| C 691 | 11.4 | 57.0 | 51 | 22 | AAV32141 | Human SNP oligonuc | C 764 | 11.2 | 56.0 | 24 | 18 | AAV68902 | Human ABL exon 1a |
| C 692 | 11.4 | 57.0 | 51 | 22 | AAV76573 | Human silent SNP c | C 765 | 11.2 | 56.0 | 24 | 18 | AAV97353 | Construction of pl |
| C 693 | 11.4 | 57.0 | 51 | 22 | AAV76900 | Human silent SNP c | C 766 | 11.2 | 56.0 | 24 | 20 | AAV91455 | T. gondii OC-2 gen |
| C 694 | 11.4 | 57.0 | 51 | 22 | AAV76916 | Human silent SNP c | C 767 | 11.2 | 56.0 | 24 | 20 | AAV99471 | PCR primer and pro |
| C 695 | 11.4 | 57.0 | 51 | 22 | AAV78408 | Human silent SNP c | C 768 | 11.2 | 56.0 | 24 | 20 | AAV68121 | Oligonucleotide us |
| C 696 | 11.4 | 57.0 | 51 | 22 | AAV78409 | Human silent SNP c | C 769 | 11.2 | 56.0 | 24 | 21 | AAV64535 | PCR primer G5 used |
| C 697 | 11.4 | 57.0 | 51 | 22 | AAV78718 | Human silent SNP c | C 770 | 11.2 | 56.0 | 24 | 21 | AAV58360 | Tylosin PKS gene P |
| C 698 | 11.4 | 57.0 | 51 | 22 | AAV79652 | Human conservative | C 771 | 11.2 | 56.0 | 24 | 21 | AAV42778 | Tylosin immunoge |
| C 699 | 11.4 | 57.0 | 52 | 16 | AAV53343 | Mouse ICM hairpin | C 772 | 11.2 | 56.0 | 24 | 22 | AAV10331 | Human haematopoiet |
| C 700 | 11.4 | 57.0 | 57 | 20 | AAV60551 | Chlamydia HMM prot | C 773 | 11.2 | 56.0 | 24 | 24 | AAV17772 | Human IgG3 M1 hng |
| C 701 | 11.4 | 57.0 | 64 | 20 | AAV78015 | Chimeric serine pr | C 774 | 11.2 | 56.0 | 24 | 24 | AAV88956 | Capture oligonucle |
| C 702 | 11.4 | 57.0 | 72 | 21 | AAV38348 | Human secreted pro | C 775 | 11.2 | 56.0 | 24 | 24 | AAV88957 | Capture oligonucle |
| C 703 | 11.4 | 57.0 | 72 | 21 | AAV28722 | Vha1phatag oligonu | C 776 | 11.2 | 56.0 | 25 | 15 | AAV061870 | RNA probe for stimu |
| C 704 | 11.4 | 57.0 | 72 | 21 | AAV29725 | Vha1phatag oligonu | C 777 | 11.2 | 56.0 | 25 | 15 | AAV061860 | Breast cancer tiss |
| C 705 | 11.4 | 57.0 | 72 | 21 | AAV29726 | Vha1phatag oligonu | C 778 | 11.2 | 56.0 | 25 | 15 | AAV92288 | Mzize catfeoyl-CoA |
| C 706 | 11.4 | 57.0 | 72 | 21 | AAV29727 | Vha1phatag oligonu | C 779 | 11.2 | 56.0 | 25 | 20 | AAV25243 | Rat liver 6-phosph |
| C 707 | 11.4 | 57.0 | 72 | 21 | AAV40743 | Oligonucleotide 3 | C 780 | 11.2 | 56.0 | 25 | 22 | AAV68420 | Rat liver 6-phosph |
| C 708 | 11.4 | 57.0 | 72 | 21 | AAV40746 | Oligonucleotide 2 | C 781 | 11.2 | 56.0 | 25 | 22 | AAV68423 | Rat liver 6-phosph |
| C 709 | 11.4 | 57.0 | 72 | 21 | AAV40747 | Oligonucleotide 4 | C 782 | 11.2 | 56.0 | 26 | 12 | AAV12506 | Probe for detectio |
| C 710 | 11.4 | 57.0 | 72 | 21 | AAV40748 | Oligonucleotide 3 | C 783 | 11.2 | 56.0 | 26 | 14 | AAV43781 | H1A detection seco |
| C 711 | 11.4 | 57.0 | 72 | 22 | AAV03578 | Mouse antibody hea | C 784 | 11.2 | 56.0 | 26 | 17 | AAV68986 | Primer for unifers |
| C 712 | 11.4 | 57.0 | 72 | 22 | AAV03581 | Antibody heavy cha | C 785 | 11.2 | 56.0 | 26 | 19 | AAV37879 | PCR primer used to |
| C 713 | 11.4 | 57.0 | 72 | 22 | AAV03582 | Antibody heavy cha | C 786 | 11.2 | 56.0 | 26 | 19 | AAV39016 | Primer for human C |
| C 714 | 11.4 | 57.0 | 72 | 22 | AAV03583 | Human foetal liver | C 787 | 11.2 | 56.0 | 26 | 20 | AAV81614 | PCR primer used to |
| C 715 | 11.4 | 57.0 | 80 | 22 | AAV72829 | Human foetal liver | C 788 | 11.2 | 56.0 | 26 | 21 | AAV08096 | Rhesus CD11a T-dom |
| C 716 | 11.4 | 57.0 | 80 | 22 | AAV21260 | Human bone marrow | C 789 | 11.2 | 56.0 | 27 | 18 | AAV74460 | Mouse flt-1 VEGF r |
| C 717 | 11.4 | 57.0 | 80 | 22 | AAV47417 | Human bone marrow | C 790 | 11.2 | 56.0 | 27 | 18 | AAV72114 | Mouse flt-1 VEGF r |
| C 718 | 11.4 | 57.0 | 80 | 22 | AAV53254 | Human breast cell | C 791 | 11.2 | 56.0 | 27 | 18 | AAV70691 | Human KDR VEGF rec |
| C 719 | 11.4 | 57.0 | 89 | 19 | AAV11331 | pDR-51 D-Arginine | C 792 | 11.2 | 56.0 | 27 | 18 | AAV67687 | Human flt1 VEGF re |
| C 720 | 11.4 | 57.0 | 89 | 22 | AAV50977 | Human breast cell | C 793 | 11.2 | 56.0 | 27 | 19 | AAV98286 | Human EGF-R hamme |
| C 721 | 11.4 | 57.0 | 89 | 22 | AAV68958 | Human foetal liver | C 794 | 11.2 | 56.0 | 27 | 19 | AAV98200 | Human EGF-R hamme |
| C 722 | 11.4 | 57.0 | 89 | 22 | AAV123840 | Probe #13773 for g | C 795 | 11.2 | 56.0 | 27 | 19 | AAV95536 | Human c-Fos hamme |
| C 723 | 11.4 | 57.0 | 89 | 22 | AAV109447 | Probe #17839 used | C 796 | 11.2 | 56.0 | 27 | 21 | AAV95414 | Human c-Fos hamme |
| C 724 | 11.4 | 57.0 | 89 | 22 | AAV109447 | Probe #17839 used | C 797 | 11.2 | 56.0 | 27 | 21 | AAV60419 | Primer bgloba 1 us |
| C 725 | 11.2 | 56.0 | 17 | 18 | AAV01722 | Hammerhead ribozym | C 798 | 11.2 | 56.0 | 27 | 22 | AAH39751 | SNP specific SNPE |
| C 726 | 11.2 | 56.0 | 18 | 18 | AAV04745 | X25 cDNA exon 1 am | C 799 | 11.2 | 56.0 | 28 | 16 | AAV09874 | KIP1 primer. Synt |
| C 727 | 11.2 | 56.0 | 18 | 21 | AAV53355 | Exon-3 gene 5' utr | C 800 | 11.2 | 56.0 | 28 | 16 | AAV00557 | PCR primer V-alpha |
| C 728 | 11.2 | 56.0 | 19 | 20 | AAV21252 | Human CGICL PCR pr | C 801 | 11.2 | 56.0 | 28 | 20 | AAV71907 | S. cerevisiae KIP1 |
| C 729 | 11.2 | 56.0 | 19 | 22 | AAV76250 | Human growth regul | C 802 | 11.2 | 56.0 | 29 | 20 | AAV21943 | Integrin subunit b |
| C 730 | 11.2 | 56.0 | 20 | 17 | AAV12589 | Interleukin-1 beta | C 803 | 11.2 | 56.0 | 29 | 20 | AAV91680 | Human C-raf hamme |
| C 731 | 11.2 | 56.0 | 20 | 19 | AAV08277 | PCR primer ABCR-EX | C 804 | 11.2 | 56.0 | 29 | 21 | AAV00450 | Hammerhead ribozym |
| C 732 | 11.2 | 56.0 | 20 | 19 | AAV39524 | Mass spectrometric | C 805 | 11.2 | 56.0 | 29 | 21 | AAV00500 | Hammerhead ribozym |
| C 733 | 11.2 | 56.0 | 20 | 20 | AAV96637 | PCR primer used to | C 806 | 11.2 | 56.0 | 29 | 21 | AAV00992 | Hammerhead ribozym |
| C 734 | 11.2 | 56.0 | 20 | 21 | AAV95942 | PCR primer used to | C 807 | 11.2 | 56.0 | 29 | 21 | AAV24011 | Oestrogen receptor |
| C 735 | 11.2 | 56.0 | 20 | 21 | AAV27690 | Human biallelic ma | C 808 | 11.2 | 56.0 | 29 | 21 | AAV24080 | Oestrogen receptor |
| C 736 | 11.2 | 56.0 | 20 | 21 | AAV231421 | Unlabelled primer | C 809 | 11.2 | 56.0 | 29 | 21 | AAV24365 | PCR primer for DNA |
| C 737 | 11.2 | 56.0 | 20 | 21 | AAV231426 | HCY noncoding regi | C 810 | 11.2 | 56.0 | 29 | 22 | AAV90284 | PCR primer used fo |
| C 738 | 11.2 | 56.0 | 20 | 22 | AAV06875 | NMDA-NR1 gene spec | C 811 | 11.2 | 56.0 | 30 | 18 | AAV86257 | Chick glycine deca |
| C 739 | 11.2 | 56.0 | 20 | 22 | AAV59289 | Human hhdGF-Iso PC | C 812 | 11.2 | 56.0 | 30 | 18 | AAV59596 | |

| | | | | | | | | | | | | | | | |
|---|-----|------|------|----|----|-----------|--------------------|---|-----|------|------|----|----|-----------|----------------------|
| C | 813 | 11.2 | 56.0 | 30 | 19 | AAFP6008 | Putative human CIS | C | 886 | 11.2 | 56.0 | 50 | 22 | AAAL3562 | Human SNP oligonuc |
| C | 814 | 11.2 | 56.0 | 30 | 20 | AAV17147 | Human V3 Loop HIV | C | 887 | 11.2 | 56.0 | 50 | 22 | AAAT78751 | Human silent SNP c |
| C | 815 | 11.2 | 56.0 | 30 | 22 | AAAD13126 | Human membrane-tyr | C | 888 | 11.2 | 56.0 | 51 | 21 | AAAC23560 | Human secreted pro |
| C | 816 | 11.2 | 56.0 | 30 | 22 | AAAS0608 | Human MUC1 derivat | C | 889 | 11.2 | 56.0 | 51 | 22 | AAAL29360 | Human SNP oligonuc |
| C | 817 | 11.2 | 56.0 | 30 | 22 | AAAH21923 | Mouse digital sequ | C | 890 | 11.2 | 56.0 | 51 | 22 | AAAL31199 | Human SNP oligonuc |
| C | 818 | 11.2 | 56.0 | 30 | 22 | AAAF31870 | Human Kuf6 promote | C | 891 | 11.2 | 56.0 | 51 | 22 | AAAL31467 | Human SNP oligonuc |
| C | 819 | 11.2 | 56.0 | 30 | 22 | AAAC6814 | PCR primer for DNA | C | 892 | 11.2 | 56.0 | 51 | 22 | AAAL32147 | Human SNP oligonuc |
| C | 820 | 11.2 | 56.0 | 30 | 22 | AAAC84015 | Synechocystis sp o | C | 893 | 11.2 | 56.0 | 51 | 22 | AAAL33418 | Human SNP oligonuc |
| C | 821 | 11.2 | 56.0 | 31 | 19 | AAAV44702 | Fluorescent label1 | C | 894 | 11.2 | 56.0 | 51 | 22 | AAAT17159 | Human silent SNP c |
| C | 822 | 11.2 | 56.0 | 31 | 19 | AAAV44731 | PCR primer for Pax | C | 895 | 11.2 | 56.0 | 51 | 22 | AAAT78750 | Human silent SNP c |
| C | 823 | 11.2 | 56.0 | 31 | 19 | AAIV44721 | Fluorescent label1 | C | 896 | 11.2 | 56.0 | 51 | 22 | AAAH89331 | Human cadherin cod |
| C | 824 | 11.2 | 56.0 | 31 | 22 | AAI30206 | Human single nucle | C | 897 | 11.2 | 56.0 | 51 | 22 | AAAH89704 | Human tubulin cod1 |
| C | 825 | 11.2 | 56.0 | 32 | 19 | AAV44706 | Fluorescent label1 | C | 898 | 11.2 | 56.0 | 51 | 22 | AAAH89706 | Human tubulin cod1 |
| C | 826 | 11.2 | 56.0 | 32 | 19 | AAV15300 | TNFalpha-related c | C | 899 | 11.2 | 56.0 | 51 | 22 | AAAH90227 | Human clone cg4395 |
| C | 827 | 11.2 | 56.0 | 32 | 21 | AAAS1755 | Forward oligo U2 f | C | 900 | 11.2 | 56.0 | 51 | 22 | AAAH38372 | Human SNP flankin |
| C | 828 | 11.2 | 56.0 | 32 | 22 | AAAH02114 | Cryptococcus neofo | C | 901 | 11.2 | 56.0 | 51 | 22 | AAAH40716 | Human SNP flankin |
| C | 829 | 11.2 | 56.0 | 32 | 22 | AAAF59008 | Mouse epididymis-s | C | 902 | 11.2 | 56.0 | 51 | 23 | ABLO00456 | Human silent nonco |
| C | 830 | 11.2 | 56.0 | 32 | 22 | AAAC6570 | Primer used to amp | C | 903 | 11.2 | 56.0 | 51 | 23 | ABLO00869 | Human amino acid c |
| C | 831 | 11.2 | 56.0 | 32 | 23 | AB197821 | Non-endogenous hum | C | 904 | 11.2 | 56.0 | 51 | 23 | AAAT68936 | C Activated T-cell f |
| C | 832 | 11.2 | 56.0 | 32 | 24 | ABAO4889 | TT virus PCR prime | C | 905 | 11.2 | 56.0 | 54 | 21 | AAAT75318 | Fragment derived f |
| C | 833 | 11.2 | 56.0 | 33 | 18 | AAV12614 | Primer oligo-249 f | C | 906 | 11.2 | 56.0 | 59 | 21 | AAAZ96889 | S. cerevisiae gene |
| C | 834 | 11.2 | 56.0 | 33 | 18 | AAAT73484 | Transgenic mouse h | C | 907 | 11.2 | 56.0 | 61 | 21 | AAAS30820 | PCR primer |
| C | 835 | 11.2 | 56.0 | 33 | 19 | AAAV3818 | PCR primer oligo-2 | C | 908 | 11.2 | 56.0 | 63 | 16 | AAAT05044 | LK26 heavy chain v |
| C | 836 | 11.2 | 56.0 | 33 | 21 | AAAI5028 | PCR primer for the | C | 909 | 11.2 | 56.0 | 63 | 18 | AAAT78326 | Plasmid vector pVA |
| C | 837 | 11.2 | 56.0 | 33 | 22 | AAAD02560 | Human sericantrin | C | 910 | 11.2 | 56.0 | 63 | 18 | AAAT78327 | Plasmid vector pVA |
| C | 838 | 11.2 | 56.0 | 33 | 22 | AAAC50155 | LPAL-PTM808E fusio | C | 911 | 11.2 | 56.0 | 63 | 19 | AAAT78327 | Recombinant Vaccin |
| C | 839 | 11.2 | 56.0 | 34 | 15 | AAOS7269 | Enzymatic RNA mole | C | 912 | 11.2 | 56.0 | 63 | 19 | AAV347732 | Recombinant Vaccin |
| C | 840 | 11.2 | 56.0 | 34 | 20 | AAAX34952 | PCR primer used to | C | 913 | 11.2 | 56.0 | 63 | 20 | AAAZ23358 | Plasmid pi-AN7 DNA |
| C | 841 | 11.2 | 56.0 | 34 | 22 | AAAD13146 | Human MTSP3 protea | C | 914 | 11.2 | 56.0 | 63 | 21 | AAAZ23763 | Chimeric antibody |
| C | 842 | 11.2 | 56.0 | 34 | 22 | AAAD13158 | Human membrane-tyr | C | 915 | 11.2 | 56.0 | | | | |

| | | | | | | |
|--------|------|------|-----|----|-----------|--------------------|
| C 959 | 11.2 | 56.0 | 92 | 22 | AAK42289 | Human bone marrow |
| C 960 | 11.2 | 56.0 | 92 | 22 | AAI23059 | Probe #12992 for 9 |
| C 961 | 11.2 | 56.0 | 92 | 22 | AAI48365 | Probe #17051 used |
| C 962 | 11.2 | 56.0 | 93 | 16 | AAO75907 | Primer HP2 for amp |
| C 963 | 11.2 | 56.0 | 93 | 21 | AAAS2478 | Human MN gene exon |
| C 964 | 11.2 | 56.0 | 93 | 21 | AAAI6559 | Human MN exon 5 SE |
| C 965 | 11.2 | 56.0 | 94 | 21 | AAAS6882 | RSV and PRV fusion |
| C 966 | 11.2 | 56.0 | 98 | 21 | AAAC29143 | Human secreted pro |
| C 967 | 11.2 | 56.0 | 99 | 18 | AAV47781 | Polyclonal anti-fe |
| C 968 | 11.2 | 56.0 | 99 | 21 | AAAC1268 | Human secreted pro |
| C 969 | 11.2 | 56.0 | 100 | 19 | AAAI2805 | Human biallelic po |
| C 970 | 11.2 | 55.0 | 15 | 16 | AAO90337 | E-cadherin gene am |
| C 971 | 11.2 | 55.0 | 15 | 22 | AAE50196 | IGF-I oligonucleot |
| C 972 | 11.2 | 55.0 | 15 | 22 | AAE50201 | IGF-I oligonucleot |
| C 973 | 11.2 | 55.0 | 15 | 22 | AAE51388 | IGF-I oligonucleot |
| C 974 | 11.2 | 55.0 | 15 | 22 | AAE51389 | IGF-I oligonucleot |
| C 975 | 11.2 | 55.0 | 15 | 22 | AAE51390 | IGF-I oligonucleot |
| C 976 | 11.2 | 55.0 | 15 | 22 | AAE51391 | IGF-I oligonucleot |
| C 977 | 11.2 | 55.0 | 15 | 22 | AAE51392 | IGF-I oligonucleot |
| C 978 | 11.2 | 55.0 | 17 | 18 | AAV75272 | Mouse flt-1 VEGF r |
| C 979 | 11.2 | 55.0 | 17 | 18 | AAV75273 | Mouse flt-1 VEGF r |
| C 980 | 11.2 | 55.0 | 17 | 21 | AAAF02090 | Hammerhead ribozym |
| C 981 | 11.2 | 55.0 | 17 | 21 | AAAS6219 | Human genomic SNP |
| C 982 | 11.2 | 55.0 | 19 | 19 | AAV46876 | Antisense oligonuc |
| C 983 | 11.2 | 55.0 | 19 | 20 | AAAS3253 | Human adenosine A1 |
| C 984 | 11.2 | 55.0 | 19 | 21 | AAAF1818 | Human adenosine A1 |
| C 985 | 11.2 | 55.0 | 19 | 21 | AAAS3266 | Low adenosine anti |
| C 986 | 11.2 | 55.0 | 19 | 21 | AAAO3055 | Human adenosine A1 |
| C 987 | 11.2 | 55.0 | 19 | 22 | AAH38909 | SNP specific upper |
| C 988 | 11.2 | 55.0 | 19 | 22 | AAE70533 | Human DRD2 fragmen |
| C 989 | 11.2 | 55.0 | 20 | 19 | AAV46875 | Antisense oligonuc |
| C 990 | 11.2 | 55.0 | 20 | 19 | AAV46841 | Antisense oligonuc |
| C 991 | 11.2 | 55.0 | 20 | 20 | AAH85608 | PCR primer used to |
| C 992 | 11.2 | 55.0 | 20 | 20 | AAH96834 | PCR primer used to |
| C 993 | 11.2 | 55.0 | 20 | 20 | AAAS3218 | Human adenosine A1 |
| C 994 | 11.2 | 55.0 | 20 | 20 | AAAS3218 | Human adenosine A1 |
| C 995 | 11.2 | 55.0 | 20 | 20 | AAH09036 | Primer used for am |
| C 996 | 11.2 | 55.0 | 20 | 21 | AAZ76964 | Human biallelic ma |
| C 997 | 11.2 | 55.0 | 20 | 21 | AAAF18783 | Human adenosine A1 |
| C 998 | 11.2 | 55.0 | 20 | 21 | AAAF1817 | Human adenosine A1 |
| C 999 | 11.2 | 55.0 | 20 | 21 | AAAF6412 | Dog genomic marker |
| C 1000 | 11.2 | 55.0 | 20 | 21 | AAAS32662 | Low adenosine anti |

ALIGNMENTS

RESULT 1
 ID AAS5800 standard; DNA; 20 BP.

AC AAS5800;
 DT 01-SEP-2000 (first entry)

DE Human histone deacetylase HD1 antisense oligonucleotide SEQ ID NO:43.
 XX Human; DNA methyltransferase; DNA Methylase; antisense oligonucleotide;
 XX modulation; inhibition; gene expression; combination therapy; p16;
 KW histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
 KW methylation; gene therapy; tumour; cytostatic; antitumour;
 KW antiinflammatory; inflammation; asthma; ss.

OS Homo sapiens.
 XX
 XX WO200023112-A1.
 XX
 XX 27-APR-2000.
 XX
 XX 19-OCT-1999; 99WO-US24278;
 XX 19-OCT-1998; 98US-0104804;
 XX

PA (METH-) METHYLGENE INC.
 XX
 PI Besterman JM, MacLeod AR, Siders WM;
 DR WPI: 2000-339532/29.
 XX
 PT Inhibiting gene expression e.g. DNA methyltransferase, by treating
 PT cells with a synergistic amount of antisense oligonucleotide and
 PT protein effectors e.g. 5-aza-cytidine of gene products, useful for gene
 PT therapy of e.g. tumors
 PS
 PS Disclosure: Page 29; 99pp; English.

CC The present invention describes a method for inhibiting the expression
 CC of a gene in a cell comprising contacting the cell with an effective
 CC synergistic amount of an antisense oligonucleotide which inhibits
 CC expression of the gene, and an effective synergistic amount of a protein
 CC effector of a product of the gene. Also described are: (1) a method for
 CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
 CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a
 CC gene comprising an antisense oligonucleotide which inhibits expression of
 CC the gene in operable association with a protein effector of a gene
 CC product; and (4) a pharmaceutical composition comprising the inhibitor of
 CC (3). The methods and compositions are useful as analytical tools for
 CC transgenic studies and as therapeutic tools, e.g. as gene therapy tools
 CC for human diseases including benign and malignant tumors, inflammation
 CC or asthma. The methods, inhibitors and compositions of the invention
 CC that inhibit expression or activity of a gene or gene product may be
 CC used to treat patients having, or predisposed to developing, a disease
 CC responsive to inhibition of the gene. These may also be used to activate
 CC silenced genes to provide missing gene functions and improve a given
 CC condition. Furthermore, the methods and compositions are useful as
 CC probes of the physiological function of a gene product in an experimental
 CC cell culture or animal system; and to evaluate the effect of inhibiting
 CC gene activity or expression. AAS5758 to AAS5842 represent
 CC oligonucleotide sequences which are used in the exemplification of the
 CC present invention.

CC Sequence 20 BP; 6 A; 3 C; 10 G; 1 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
 Best Local Similarity 100.0%; Pred. No. 8.2; Mismatches 0; Gaps 0;
 Matches 20; Conservative 0;

OY 1 ggaagccagagctgagagag 20
 DB 1 ggaagccagagctgagagag 20

RESULT 2
 ID AAD20116 standard; DNA; 20 BP.

AC AAD20116;
 DT 03-JAN-2002 (first entry)

DE Human histone deacetylase antisense oligonucleotide, HDAC1 AS2.
 XX Human; cytosolic; vasotropic; fungicide; histone deacetylase; inhibitor;
 KW HDAC; therapy; cell proliferative disease; cancer; restenosis; psoriasis;
 KW protozoal disease; fungal disease; infection; ss.

OS Homo sapiens.
 XX
 XX WO200170675-A2.
 XX
 XX 27-SEP-2001.
 XX
 XX 26-MAR-2001; 2001WO-IB00683.
 XX 24-MAR-2000; 2000US-192151P.
 XX

| Matches | 17 | Conservative | 0 | Mismatches | 2 | Indels | 0 | Gaps | 0 |
|----------|---|-------------------|--------------------|------------|------------|--------|---|------|---|
| OY | 2 | gaagccagagctgagag | 20 | | | | | | |
| Db | 8 | gaagccagatctgtgag | 26 | | | | | | |
| RESULT 5 | | | | | | | | | |
| AKI8047 | AKI8047 standard; DNA; 81 BP. | | | | | | | | |
| XX | AAK18047; | | | | | | | | |
| XX | 05-NOV-2001 (first entry) | | | | | | | | |
| DE | Human brain expressed single | exon probe | SEQ ID NO: 18038. | | | | | | |
| XX | Human: brain expressed exon; gene expression analysis; probe; | | | | | | | | |
| KW | microarray; Alzheimer's disease; multiple sclerosis; schizophrenia; | | | | | | | | |
| XX | epilepsy; cancer; ss. | | | | | | | | |
| OS | Homo sapiens. | | | | | | | | |
| XX | WO200157275-A2. | | | | | | | | |
| PN | 09-AUG-2001. | | | | | | | | |
| PD | 30-JAN-2001; 2001WO-US000667. | | | | | | | | |
| PF | 04-FEB-2000; 2000US-0180312. | | | | | | | | |
| XX | 26-MAY-2000; 2000US-0207456. | | | | | | | | |
| PR | 30-JUN-2000; 2000US-0608408. | | | | | | | | |
| PR | 03-AUG-2000; 2000US-0632366. | | | | | | | | |
| PR | 21-SEP-2000; 2000US-0234687. | | | | | | | | |
| PR | 27-SEP-2000; 2000US-0236359. | | | | | | | | |
| PR | 04-OCT-2000; 2000GB-0024263. | | | | | | | | |
| XX | (MOLE-) MOLECULAR DYNAMICS INC. | | | | | | | | |
| PA | Penn SG, Hanzel DK, Chen W, Rank DR; | | | | | | | | |
| XX | WPI; 2001-483446/52. | | | | | | | | |
| DR | Single exon nucleic acid probes for analyzing gene expression in human | | | | | | | | |
| XX | brains - | | | | | | | | |
| PT | Example 4; SEQ ID NO: 18038; 650pp + sequence listing; English. | | | | | | | | |
| PS | The present invention provides a number of single exon nucleic acid | | | | | | | | |
| XX | probes which are derived from genomic sequences expressed in the human | | | | | | | | |
| CC | brain. They can be used to measure gene expression in brain cell samples, | | | | | | | | |
| CC | which may enable the diagnosis and improved treatment of nervous system | | | | | | | | |
| CC | diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, | | | | | | | | |
| CC | epilepsy and cancers. The present sequence is one of the probes of the | | | | | | | | |
| CC | invention. | | | | | | | | |
| XX | Sequence 81 BP; 19 A; 17 C; 28 G; 17 T; 0 other; | | | | | | | | |
| SO | Query Match | 79.0%; | Score 15.8; | DB 22; | Length 81; | | | | |
| | Best Local Similarity | 89.5%; | Pred. No. 6.4e+02; | | | | | | |
| | Matches 17; Conservative | 0; | Mismatches 2; | Indels 0; | Gaps 0; | | | | |
| OY | 2 | gaagccagagctgagag | 20 | | | | | | |
| Db | 8 | gaagccagatctgtgag | 26 | | | | | | |
| RESULT 6 | | | | | | | | | |
| AAK43934 | AAK43934 standard; DNA; 81 BP. | | | | | | | | |
| XX | AAK43934; | | | | | | | | |

```

XX 06-NOV-2001 (first entry)
DT
XX
XX Human bone marrow expressed single exon probe SEQ ID NO: 18491.
DE
XX
XX Human; bone marrow expressed exon; gene expression analysis; probe;
KW
XX microarray; cancer; leukemia; lymphoma; myeloma; ss.
OS
XX Homo sapiens.
XX
XX WO200157276-A2.
XX
XX PD
XX
XX 09-AUG-2001.
XX
XX
XX 30-JAN-2001; 2001WO-US00668.
XX
XX
XX 04-FEB-2000; 2000US-0180312.
XX
XX 26-MAY-2000; 2000US-0207456.
XX
XX 30-JUN-2000; 2000US-0608408.
XX
XX 03-AUG-2000; 2000US-0632366.
XX
XX 21-SEP-2000; 2000US-0234687.
XX
XX 27-SEP-2000; 2000US-0236359.
XX
XX 04-OCT-2000; 2000GB-0024263.
XX
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX
XX WPI: 2001-488900/53.
XX
XX
XX Human genome-derived single exon nucleic acid probes useful for
PT
XX analyzing gene expression in human bone marrow -
XX
XX
XX Example 4; SEQ ID NO: 18491; 658bp + Sequence Listing; English.
XX
XX
XX The present invention provides a number of single exon nucleic acid
CC
XX probes which are derived from genomic sequences expressed in the human
CC
XX bone marrow. They can be used to measure gene expression in bone marrow
CC
XX samples, which may enable the improved diagnosis and treatment of cancers
CC
XX such as lymphoma, leukemia and myeloma. The present sequence is one of
CC
XX the probes of the invention.
XX
XX
XX Sequence 81 BP; 19 A; 17 C; 28 G; 17 T; 0 other;
XX
XX
XX
XX
XX Query Match 79.0%; Score 15.8; DB 22; Length 81;
XX
XX Best Local Similarity 89.5%; Pred. No. 6.4e+02;
XX
XX Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX
XX QY 2 gaagccagagctcgagag 20
XX
XX ||||||| ||| |||
XX
XX Db 8 gaagccagatctggtgag 26
XX
XX
XX
XX
XX RESULT 7
XX
XX ID AAI49944
XX
XX AAI49944 standard; DNA; 81 BP.
XX
XX
XX AAI49944;
XX
XX
XX 17-OCT-2001 (first entry)
XX
XX
XX Probe #18630 used to measure gene expression in human placenta sample.
XX
XX
XX DE
XX
XX Probe; microarray; human; placenta; antenatal diagnosis;
XX
XX genetic disorder; ss.
XX
XX
XX OS
XX
XX Homo sapiens.
XX
XX
XX WO200157272-A2.
XX
XX
XX
XX
XX WO200157272-A2.
XX
XX
XX
XX
XX 09-AUG-2001.
XX
XX
XX
XX

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PF 30-JAN-2001; 2001WO-US000663.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR WPI; 2001-488897/53.
 XX
 PT Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 PS
 PS Claim 25; SEQ ID No 18630; 654bp; English.
 CC The present invention relates to single exon nucleic acid probes (SENP).
 CC The present sequence is one such probe. The probes are useful for
 CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 XX
 SQ Sequence 81 BP; 19 A; 17 C; 28 G; 17 T; 0 other;

Query Match 79.0%; Score 15.8; DB 22; Length 81;
 Best Local Similarity 89.5%; Pred. No. 6.4e+02;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 gaagccagagctgagaga 20
 |||||
 Db 8 gaagccagagctgagaga 26

RESULT 8
 AAH48905
 ID AAH48905 standard; DNA; 20 BP.
 XX
 AC AAH48905;
 XX
 DT 12-NOV-2001 (first entry)
 XX
 DE Human PAH gene associated primer #38.
 XX
 KW Neonate screening; prenatal screening; gene chip; diagnosis;
 KW phenylketonuria; maple syrup disease; galactosemia; homocysteinuria;
 KW medium-chain acyl-CoA-dehydrogenase deficiency; biotinidase deficiency;
 KW familial hypercholesterolemia; familial defective apolipoprotein-B;
 KW cystic fibrosis; Marfan syndrome; Smith-Lemli-Opitz syndrome;
 KW androgenital syndrome; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200153520-A2.
 XX
 PD 26-JUL-2001.
 XX
 PF 09-JAN-2001; 2001WO-EP00139.
 XX
 PR 21-JAN-2000; 2000DE-1002446.
 XX
 PA (CULLEN) CULLEN P.
 PA (SEED/) SEEDORF U.
 XX
 PI Cullen P, Seedorf U;
 XX
 DR WPI; 2001-457616/49.
 XX

PT DNA chip, useful for neonatal or prenatal screening for many genetic
 PT diseases simultaneously, carries oligonucleotides complementary to
 PT phenotypically relevant reference sequences -
 XX
 XX Example 1; Page 21; 101pp; German.
 XX
 CC This invention describes a novel nucleotide support (A; gene chip) which
 CC carries a selection of oligonucleotides (I) that are identical, or
 CC complementary, to segments of reference sequences relevant to at least
 CC two genetically determined phenotypes. (A) are used for simultaneous
 CC diagnosis of at least two of the following diseases: phenylketonuria
 CC (maple syrup disease), galactosemia, homocysteinuria, biotinidase
 CC deficiency, medium-chain acyl-CoA-dehydrogenase deficiency, familial
 CC hypercholesterolemia, familial defective apolipoprotein-B, cystic
 CC fibrosis, Marfan syndrome, Smith-Lemli-Opitz syndrome and androgenital
 CC syndrome. Specifically they are used in neonatal or prenatal diagnosis.
 CC (A) require a relatively small number of separate hybridization regions
 CC (about 500 for testing for 21 specified disorders), so can be used for
 CC simultaneous testing for many diseases. Testing is quick, inexpensive,
 CC reliable and more sensitive than current physiological methods.
 CC AAH48868-AAH489166 represent oligonucleotides used to illustrate the
 CC method of the invention.
 XX
 SQ Sequence 20 BP; 9 A; 3 C; 7 G; 1 T; 0 other;

Query Match 77.0%; Score 15.4; DB 22; Length 20;
 Best Local Similarity 94.1%; Pred. No. 8.9e+02;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 gaagccagagctgagaga 18
 |||||
 Db 3 gaagccagagctgagaga 19

RESULT 9
 AAA28046/C
 ID AAA28046 standard; DNA; 21 BP.
 XX
 AC AAA28046;
 XX
 DT 01-DEC-2000 (first entry)
 XX
 DE PCR primer 12G10-14 for HHL cDNA amplification.
 XX
 KW Mouse; haematopoiesis; Hzf; HHL; haematopoietic zinc finger; antihaemic;
 KW haemostatic; immunostimulant; cytosolic; dermatological; thrombolytic;
 KW immunosuppressive; antiinflammatory; cardiac; anaemia; leukaemia;
 KW thrombocytopaenia; hyperplasia; erythrocytopaenia; thalassemia;
 KW granulocytopenia; thrombocythaemia; polycythaemia; leukaemia; thrombosis;
 KW lupus erythematosus; atherosclerosis; haemorrhage; embolism;
 KW myocardial infarction; AIDS; mouse; PCR primer; ss.
 XX
 OS Mus sp.
 XX
 PN WO200049145-A2.
 XX
 PD 24-AUG-2000.
 XX
 PF 18-FEB-2000; 2000WO-CA00171.
 XX
 PR 19-FEB-1999; 99US-0120972.
 XX
 PA (MOUNT) MOUNT SINAI HOSPITAL.
 XX
 PI Hidaka M, Stanford W, Caruana G, Kimura Y;
 XX
 DR WPI; 2000-565374/52.
 XX
 PT New hematopoietic zinc finger nucleic acid for diagnosing, monitoring,
 PT and treating conditions mediated by the polypeptides encoded by it,
 PT such as anemia, leukemia, myocardial infarction and atherosclerosis -
 XX

PS Example 1; Page 29; 68pp; English.

XX The invention relates to two haematopoietic genes expressed primarily in
CC haematopoietic lineages. The two genes are designated Hzf
CC (haematopoietic zinc finger) and Hhl (haematopoietic cells, heart and
CC liver). AAA28038-A28039 and AAY94699-Y94700 represent the Hzf and Hhl
CC gene and protein sequences. The invention includes the gene and protein
CC sequences, fragments and analogues of the sequences, host cells
CC comprising any of the nucleic acid sequences, antibodies directed
CC against the proteins, and probes specific for the genes. Also included
CC are methods for identifying Hzf and Hhl regulatory compositions, and
CC methods for treating a condition mediated by either protein. The Hzf and
CC Hhl proteins exhibit antihaemic, haemostatic, immunostimulant,
CC cytostatic, dermatological, immunosuppressive, antiinflammatory,
CC thrombolytic, and cardiant activities. Hzf is primarily expressed in
CC megakaryocytes, and multipotential progenitor cells, while Hhl is
CC expressed in myeloid lineages, and heart and liver tissues as its name
CC suggests. The nucleic acid and polypeptide sequences of the invention may
CC be used in the production of a transgenic non-human mammal, which can be
CC used to screen for an agent that reduces or inhibits Hzf or Hhl
CC associated pathology. Conditions that may be treated using the proteins
CC and nucleotides of the invention include anaemia, thrombocytopenia,
CC leukopenia, hypoplasia, erythrocytopenia, thalassaemia,
CC granulocytopenia, thromocythaemia, polycythaemia, leukaemia, lupus
CC erythematosus, thrombosis, atherosclerosis, haemorrhage, embolism, and
CC myocardial infarction. The nucleotide or protein sequences may modulate
CC production of blood cells in situations where a patient has a disease
CC such as AIDS, or in clinical settings, such as in conjunction with a bone
CC marrow transplant or in the treatment of aplasia or myelosuppression
CC caused by radiation, chemical treatment, or chemotherapy.
CC The present sequence represents a PCR primer used in Northern blot
CC analysis of the Hhl products.

XX Sequence 21 BP; 2 A; 7 C; 4 G; 8 T; 0 other;

SO

Query Match 74.0%; Score 14.8; DB 21; Length 21;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ggaagccagagctggaga 18
||||||| ||||| |||
Db 20 GGAAGCCAGAGCTGAGA 3

RESULT 10
AA085723/C
AA085723 standard; DNA; 22 BP.

XX AA085723;

XX 04-OCT-1995 (first entry)

DT

XX Intronic primer for Wilson's disease gene exon 21.

DE

XX Wilson's disease; chromosome 13; intronic primer; ss.

KW

XX Synthetic.

OS

XX WO9506714-A.

PN

XX 09-MAR-1995.

PD

XX 01-SEP-1994; 94WO-US09851.

PF

XX 01-SEP-1993; 93US-0118441.

PR

XX (GEHO) GEN HOSPITAL CORP.

PA (UYCO) UNIV COLUMBIA NEW YORK.

XX

XX Giliam TC, Tanzi RE;

PI

XX WPI; 1995-115430/15.

DR

XX Isolated Wilson's disease nucleic acid mol. - also probes,
PT vectors, etc., useful for diagnosis and gene therapy of Wilson's
PT disease

XX Example; page 71; 175pp; English.

XX A 3.5 kb pMD02 cDNA clone was identified by hybridisation of an
CC oligo (dT)-primed brain cDNA library with a degenerate oligo to a
CC novel heavy metal binding site situated on the A-beta protein of
CC the amyloid beta-protein precursor. Both strands of the pMD cDNA
CC were sequenced in at least 2 cDNA clones (see AA085678/R71333).

CC The partial cDNA spans approx. 80 kb of genomic DNA (data not
CC shown). Preliminary data indicates a total of 19 intron/exon
CC junctions. A chromosome 13 cosmid library was used to prepare
CC cosmid DNA filters. Cosmid DNA filters were hybridised to labelled
CC PCR fragments amplified from total human DNA using pairs of primers
CC flanking each of the 21 WD gene exons. Intronic primers used for
CC amplification were AA085682-Q85723. A restriction map was constructed
CC by calculating and compiling the migration distances of
CC hybridisation-positive restriction fragments.

XX Sequence 22 BP; 3 A; 7 C; 4 G; 8 T; 0 other;

SO

Query Match 74.0%; Score 14.8; DB 16; Length 22;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ggaagccagagctggagag 19
||||||| ||||| |||
Db 18 GAAGCCTGACCTGGAGAG 1

RESULT 11
AA085723/C
AA085723 standard; cDNA to mRNA; 90 BP.

XX AA085723;

XX 19-JUL-1996 (first entry)

DT

XX Human gene signature HUMGS01558.

DE

XX Gene signature; messenger RNA; mRNA; relative abundance; frequency;
KW human; cloning; mapping; non-biased library; diagnosis; detection;
KW cell typing; abnormal cell function; ss.

XX

OS Homo sapiens.

XX

PN WO9514772-A1.

XX

PD 01-JUN-1995.

XX

PF 11-NOV-1994; 94WO-JP01916.

PR

XX 12-NOV-1993; 93JP-0355504.

PR

XX (MATS/) MATSUBARA K.

PA (OKUB/) OKUBO K.

XX

XX Matsubara K, Okubo K;

PI

XX WPI; 1995-206931/27.

DR

XX Identifying gene signatures in 3'-directed human cDNA library - e.g.
PT for diagnosis of abnormal cell function, by preparing cDNA that
PT reflects relative abundance of corresp. mRNA in specific human
PT tissues

XX

PS Claim 1; Page 630; 2245pp; Japanese.

XX

CC A single-stranded DNA (or its complementary strand or the corresp.

CC double-stranded DNA) which comprises one of the 7837 "GS" sequences
CC given in AAT19001-726837 and which is able to hybridise to part of
CC human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
CC sequences were obtained from 3'-directed cDNA libraries prepared
CC from various human tissues; synthesis of cDNA was initiated from the
CC 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'-
CC untranslated sequence is unique to a particular mRNA species, almost
CC all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
CC is constructed so as to reflect accurately the relative abundance of
CC different mRNAs in the particular tissue from which it was derived.
CC The appearance frequency of a given GS in a cDNA library can be
CC determined (esp. using primers and probes derived from the GS
CC sequences) as a means of diagnosing abnormal cell function or for
CC recognising different cell types.
XX
SQ Sequence 90 BP; 17 A; 18 C; 17 G; 38 T; 0 other;

Query Match 74.0%; Score 14.8; DB 16; Length 90;

Best Local Similarity 88.9%; Pred. No. 1.8e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 3 aagccagagctgagag 20
||| ||||| |||||
Db 30 AAGCAGAGATGAGAGG 13

RESULT 12

AAV20005
ID AAV20005 standard; DNA: 46 BP.

XX
AC AAV20005;

DT 15-JUL-1998 (first entry)

DE PCR primer for mutated KGF-2 coding sequence.

XX Keratinocyte growth factor-2; KGF-2; fibroblast growth factor-12; FGF-12;

KW keratinocyte proliferation; growth stimulator; skin strength; mucositis;

KM epidermal thickening; wound healing; inflammatory bowel disease; therapy;

KW inflammation; hair growth promoter; PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

XX W09806844-A1.

PD 19-FEB-1998.

XX 13-AUG-1997; 97WO-US14112.

PR 28-FEB-1997; 97US-0039045.

PR 13-AUG-1996; 96US-0023852.

XX (HUMA-) HUMAN GENOME SCI INC.

PA Coleman TA, Duan R, Jimenez P, Mendrick D, Moore PA;

PI Ni J, Rampy MA, Ruben SM, Zhang J;

DR WPI; 1998-159536/14.

XX Keratinocyte growth factor-2 deletion mutants - useful to promote

PT or accelerate wound healing

PS Example 12; Page 124; 25pp; English.

XX This sequence is a primer for a mutated version of the human
CC keratinocyte growth factor-2 (KGF-2) coding sequence of the invention.
CC The KGF-2 protein is used to create the mutants of the invention, that
CC stimulate proliferation of keratinocytes. The mutants have enhanced
CC keratinocyte growth stimulating activity as compared to wild-type KGF-2
CC (also known as fibroblast growth factor-12). They are used to stimulate
CC growth or proliferation of keratinocytes. In particular, they are used to

CC prevent or improve the appearance of wrinkles or aged skin, improving
CC skin strength, promoting epidermal thickening, reducing scarring or
CC improving healing after cosmetic surgery. The mutants are also useful for
CC promoting wound healing, especially where an individual is wound healing
CC impaired. Wounds to be treated may be surgical or excisional wounds, deep
CC wounds involving damage of the dermis and epidermis, eye tissue wounds,
CC dental tissue wounds, oral cavity wounds, diabetic, dermal, cubitus,
CC arterial or venous stasis ulcers or burns. Treatment, especially by
CC anastomosis, of wounds caused by colonic or gastrointestinal surgical
CC procedures can also be achieved through use of the KGF-2 deletion
CC mutants. They can also be used for treatment or prevention of mucositis,
CC inflammatory bowel disease, reduction of inflammation, promoting hair
CC growth, uterine healing or tissue growth or repair in the female
CC genital tract, or for treating tissue exposed to radiation or protecting
CC tissue to be exposed to radiation (e.g. to allow an increase in radiation
CC dosage used to treat a malignancy).
XX
SQ Sequence 46 BP; 7 A; 8 C; 20 G; 11 T; 0 other;

Query Match 72.0%; Score 14.4; DB 19; Length 46;

Best Local Similarity 93.8%; Pred. No. 2.6e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 2 gaagccagagctgag 17
||||| ||||| |||||
Db 12 gaagctagagctgag 27

RESULT 13

AAZ1123
ID AAZ1123 standard; DNA: 48 BP.

XX
AC AAZ1123;

DT 03-NOV-1999 (first entry)

DE PCR primer for E.coli optimised keratinocyte growth factor cDNA.

XX Keratinocyte growth factor: KGF-2; human; platelet; fibrinogen; albumin;

KW globulin; total serum protein; blood; hypofibrinogenaemia; cirrhosis;

KW disseminated intravascular coagulation; thrombocytopenia; myelofibrosis;

KW hypofibrinemia; posttransfusion purpura; metastatic tumour; anaemia;

KW leukaemia; haemolytic syndrome; Zieve's syndrome; rheumatic disease;

KW HELLP pre-eclampsic syndrome; congenital rubella syndrome; systemic lupus;

KW Epstein-Barr infectious mononucleosis; thyrotoxicosis; uraemia; therapy;

KW infection; tissue necrosis; vasculitis; ulcerative bowel disease;

KW serositis; subacute bacterial endocarditis; liver disease; amyloidosis;

KW congestive heart failure; constrictive pericarditis; nephrotic syndrome;

KW cardiac valvular disease; hypoglobulinaemia; keratoconjunctivitis sicca;

KW PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

OS Escherichia coli.

XX W09941282-A1.

PD 19-AUG-1999.

XX 12-FEB-1999; 99WO-US03018.

PR 30-DEC-1998; 98US-0114387.

PR 13-FEB-1998; 98US-0074585.

XX (HUMA-) HUMAN GENOME SCI INC.

PA Jimenez P, Louie A, Mendrick D, Rampy MA, Russell D;

DR WPI; 1999-527359/44.

XX Use of keratinocyte growth factor-2 to increase levels of platelets,
PT fibrinogen, albumin, globulin and total serum protein

XX Example 10: Page 120: 331pp; English.
PS
XX
CC This sequence is a PCR primer for DNA encoding the E. coli optimised
CC human keratinocyte growth factor-2 (KGF-2) protein. Fragments and mutants
CC of KGF-2 are used in the methods of the invention, for increasing the
CC level of platelets, fibrinogen, albumin, globulin, and total serum
CC protein in the blood. KGF-2 can also be used to stimulate proliferation
CC of salivary gland cells, lacrimal gland cells, sinus epithelium, and
CC goblet cells. The methods can also be used to treat hypofibrinogenemia
CC caused by a cirrhosis, and disseminated intravascular coagulation (DIC).
CC The methods can be used to treat thrombocytopaenia and to alleviate
CC hypofibrinemia. The methods can also be used to treat
CC hypoglobulinaemia, total protein loss, damage to the sinus epithelium,
CC and can be used to increase proliferation of epithelial cells of the
CC bladder or prostate, stimulate proliferation of the salivary gland cells
CC and to increase goblet cell proliferation for treating or preventing
CC keratoconjunctivitis sicca.
XX
CC
XX Sequence 48 BP; 9 A; 8 C; 20 G; 11 T; 0 other;
Query Match Score 14.4; DB 20; Length 48;
Best Local Similarity 72.0%; Pred. No. 2.6e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 2 gaagccagagctcgag 17
Db 12 gaagctcagagctcgag 27
IIIIII IIIIIIIIIII
RESULT 14
AAAF1232
ID AAAF1232 standard; DNA: 48 BP.
XX
AC AAAT1232;
XX
DT 20-NOV-2000 (first entry)
XX
DE Human KGF-2 E. coli optimised clone PCR primer SEQ ID NO: 49.
XX
XX Human; keratinocyte growth factor; KGF-2; antidiabetic; antidiabetic;
KM antiinflammatory; cytoprotective; dermatological; gastrointestinal;
KM hepatic; respiratory; renal; cerebroprotective; mucositis; treatment;
KM epithelial cell proliferation; inflammatory bowel disease; lung damage;
KM liver disorder; diabetes; oral injury; gastrointestinal injury;
KM gut toxicity; gastric; duodenal; epidermolysis bullosa; skin graft;
KM skin disorder; renal failure; brain injury; intestinal fibrosis;
KM proctitis; female reproductive tract disorder; pulmonary fibrosis;
KM pneumonitis; pleural retraction; hemopoietic syndrome; myelotoxicity;
KM PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX US6077692-A.
XX
XX 20-JUN-2000.
XX
XX
XX 13-FEB-1998; 98US-0023082.
XX
XX
XX 13-AUG-1996; 96US-0023852.
XX
XX 28-FEB-1997; 97US-0039045.
XX
XX 13-AUG-1997; 97US-0055561.
XX
XX 05-JUN-1995; 95US-0461195.
XX
XX 14-FEB-1995; 95MO-US01790.
XX
XX 23-MAY-1997; 97US-0862432.
XX
XX 13-AUG-1997; 97US-0910875.
XX
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Mendrick D, Duan DR, Ni J, Jimenez P, Coleman TA, Gruber JR;
PI Dillon PJ, Gentz RL, Ruben SM, Zhang J, Moore PA, Rampy MA;
XX

DR WPI: 2000-441307/38.
XX
XX
XX Novel keratinocyte growth factor useful for promoting and accelerating
PT wound healing, comprising at least 10 contiguous amino acids from a
PT specific amino acid sequence -
XX
XX
PS Example 12: Column 153-154; 190pp; English.
XX
XX
XX This invention describes a novel human keratinocyte growth factor, KGF-2
XX (1), which has antidiabetic, antiinflammatory, hepatoprotective, renal and
XX dermatological, gastrointestinal, hepatic, respiratory, renal and
XX cerebroprotective activity. (1) is useful for stimulating epithelial cell
XX proliferation in patients suffering from wound, mucositis, ulcer such as
XX venous stasis ulcer, diabetic ulcer and cubitus ulcer. (1) is also useful
XX for treating inflammatory bowel disease, liver disorder, lung damage,
XX diabetes, oral injury, gastrointestinal injury, gut toxicity, gastric
XX ulcer, duodenal ulcer, epidermolysis bullosa, skin graft, skin disorder,
XX renal failure, brain injury, breast tissue injury, urothelial damage,
XX female reproductive tract disorder, intestinal fibrosis, proctitis,
XX pulmonary fibrosis, pneumonitis, pleural retraction, hemopoietic syndrome
XX and myelotoxicity. (1) is also useful for increasing the adherence of
XX skin grafts to wound beds and to stimulate re-epithelialization from the
XX side effects of gut toxicity, to regenerate skin in full and partial
XX thickness skin defects, and to prevent and heal damage to lungs. KGF-2
XX shows enhanced activity, increased stability, higher yield and better
XX solubility. This sequence represents a PCR primer used in the
XX amplification of an Escherichia coli optimised human KGF-2 protein
XX described in the method of the invention.
XX
XX
XX Sequence 48 BP; 9 A; 8 C; 20 G; 11 T; 0 other;
SQ
Query Match Score 14.4; DB 21; Length 48;
Best Local Similarity 72.0%; Pred. No. 2.6e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 2 gaagccagagctcgag 17
Db 12 gaagctcagagctcgag 27
IIIIII IIIIIIIIIII
RESULT 15
AAAF1930
ID AAFF1930 standard; DNA: 48 BP.
XX
XX AAFF1930;
XX
XX 10-APR-2001 (first entry)
XX
XX
XX PCR primer #8 for Escherichia coli optimised mature KGF-2.
DE
XX
XX
XX Keratinocyte growth factor; KGF-2; epithelial cell proliferation; wound;
KM mucositis; ulcer; inflammatory bowel disease; liver disorder;
KM lung damage; diabetes; oral injury; gastrointestinal injury;
KM epidermolysis bullosa; renal failure; brain injury; proctitis;
KM pulmonary fibrosis; haemopoietic syndrome; ovary injury; infertility;
KM liver fibrosis; PCR primer; ss.
XX
XX
XX Unidentified.
OS
XX
XX WO200102433-A1.
XX
XX
XX 11-JAN-2001.
XX
XX
XX 03-JUL-2000; 2000MO-US18328.
XX
XX
XX 02-JUL-1999; 99US-0142343.
XX
XX 14-JUL-1999; 99US-0143648.
XX
XX 15-JUL-1999; 99US-0144024.
XX
XX 12-AUG-1999; 99US-0148628.
XX
XX 19-AUG-1999; 99US-0148935.
XX
XX 03-NOV-1999; 99US-0163375.

PR 22-DEC-1999; 9905-0171677.
PR 19-APR-2000; 2000US-0198322.
PR 19-MAY-2000; 2000US-0205417.
PR 30-JUN-2000; 2000US-9911224.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Ruben SM, Jimenez P, Duan DR, Rampy MA, Mendrick D, Zhang J;
PI Nl J, Moore PA, Coleman TA, Gruber JR, Dillon PJ, Gentz RL;
XX WPI; 2001-071578/08.

DR A polynucleotide encoding the human keratinocyte growth factor useful
XX for stimulating epithelial cell proliferation in a patients that has
PT e.g a wound -
XX

PS Example 12; Page 327; 591pp; English.

XX The present invention relates to human keratinocyte growth factor (KGF-2;
CC see AAF31901 and AAB61657). The present sequence is a PCR primer for
CC KGF-2. KGF-2 can be used to stimulate epithelial cell proliferation in a
CC patient, where the patient has a wound, mucositis, an ulcer, inflammatory
CC bowel disease, liver disorder, lung damage, diabetes, oral injury,
CC gastrointestinal injury, gut toxicity, epidermolysis bullosa, skin graft,
CC skin disorder, renal failure, brain injury, breast tissue injury,
CC urothelial damage, female reproductive tract disorder, intestinal
CC fibrosis, proctitis, pulmonary fibrosis, peritonitis, plural
CC retraction, haemopoietic syndrome, and myelotoxicity. In addition, KGF-2
CC can be used in the treatment or prevention of ovary injury, infertility,
CC or fibrosis of the liver. KGF-2 also promotes internal healing, donor
CC site healing, internal surgical wound healing or healing of incisional
CC wounds made during cosmetic surgery in a patient.
XX

SQ Sequence 48 BP; 9 A; 8 C; 20 G; 11 T; 0 other;

Query Match

Best Local Similarity 72.0%; Score 14.4; DB 22; Length 48;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 gaagccagagctggag 17
||||| ||||| |||||
Db 12 .gaagctagagctggag 27

Search completed: July 19, 2002, 02:51:17
Job time: 5228 sec

| | | | | | | | | | | | | | |
|-------|------|------|----|---|---------------------|--------------------|-------|------|------|-----|---|--------------------|-------------------|
| C 101 | 12.2 | 61.0 | 98 | 3 | US-09-136-389-117 | Sequence 117, App | C 174 | 11.8 | 59.0 | 53 | 3 | US-09-083-756A-2 | Sequence 2, Appl |
| C 102 | 12 | 60.0 | 22 | 2 | US-08-747-536-11 | Sequence 11, Appl | C 175 | 11.8 | 59.0 | 53 | 4 | US-08-839-624-18 | Sequence 18, Appl |
| C 103 | 12 | 60.0 | 24 | 2 | US-08-735-041A-11 | Sequence 11, Appl | C 176 | 11.8 | 59.0 | 61 | 3 | US-08-787-739-95 | Sequence 95, Appl |
| C 104 | 12 | 60.0 | 24 | 3 | US-09-190-476B-11 | Sequence 11, Appl | C 177 | 11.8 | 59.0 | 61 | 4 | US-09-178-115-95 | Sequence 95, Appl |
| C 105 | 12 | 60.0 | 24 | 3 | US-09-190-899A-11 | Sequence 11, Appl | C 178 | 11.8 | 59.0 | 61 | 4 | US-09-177-776-95 | Sequence 95, Appl |
| C 106 | 12 | 60.0 | 24 | 4 | US-09-190-938B-11 | Sequence 11, Appl | C 179 | 11.6 | 58.0 | 18 | 4 | US-08-686-992A-29 | Sequence 29, Appl |
| C 107 | 12 | 60.0 | 26 | 3 | US-08-946-914-51 | Sequence 51, Appl | C 180 | 11.6 | 58.0 | 20 | 1 | US-08-418-782-18 | Sequence 18, Appl |
| C 108 | 12 | 60.0 | 26 | 3 | US-08-946-914-58 | Sequence 58, Appl | C 181 | 11.6 | 58.0 | 20 | 1 | US-08-578-590-17 | Sequence 17, Appl |
| C 109 | 12 | 60.0 | 33 | 5 | PCT-US95-06987-7 | Sequence 7, Appl | C 182 | 11.6 | 58.0 | 20 | 2 | US-08-835-099A-13 | Sequence 13, Appl |
| C 110 | 12 | 60.0 | 38 | 3 | US-09-031-563-10 | Sequence 10, Appl | C 183 | 11.6 | 58.0 | 20 | 2 | US-08-928-284-4 | Sequence 4, Appl |
| C 111 | 12 | 60.0 | 45 | 1 | US-08-176-412-6 | Sequence 6, Appl | C 184 | 11.6 | 58.0 | 20 | 2 | US-08-852-219-18 | Sequence 18, Appl |
| C 112 | 12 | 60.0 | 45 | 2 | US-08-555-268A-6 | Sequence 6, Appl | C 185 | 11.6 | 58.0 | 20 | 3 | US-09-157-349-13 | Sequence 13, Appl |
| C 113 | 12 | 60.0 | 45 | 2 | US-08-495-695B-6 | Sequence 6, Appl | C 186 | 11.6 | 58.0 | 25 | 4 | US-08-943-731-374 | Sequence 374, App |
| C 114 | 12 | 60.0 | 45 | 2 | US-08-495-695B-15 | Sequence 15, Appl | C 187 | 11.6 | 58.0 | 30 | 2 | US-08-629-001A-124 | Sequence 124, App |
| C 115 | 12 | 60.0 | 45 | 5 | PCT-US94-14436-6 | Sequence 6, Appl | C 188 | 11.6 | 58.0 | 30 | 4 | US-08-642-274D-203 | Sequence 203, App |
| C 116 | 12 | 60.0 | 46 | 5 | PCT-US94-14436-15 | Sequence 15, Appl | C 189 | 11.6 | 58.0 | 34 | 4 | US-09-230-196-42 | Sequence 42, Appl |
| C 117 | 12 | 60.0 | 65 | 2 | US-08-523-125-5 | Sequence 5, Appl | C 190 | 11.6 | 58.0 | 36 | 1 | US-08-741-881-124 | Sequence 124, App |
| C 118 | 12 | 60.0 | 66 | 3 | US-08-660-561A-5 | Sequence 5, Appl | C 191 | 11.6 | 58.0 | 36 | 1 | US-08-739-158-124 | Sequence 124, App |
| C 119 | 12 | 60.0 | 69 | 2 | US-08-523-125-7 | Sequence 7, Appl | C 192 | 11.6 | 58.0 | 36 | 2 | US-08-739-161-124 | Sequence 124, App |
| C 120 | 12 | 60.0 | 69 | 3 | US-08-660-561A-7 | Sequence 7, Appl | C 193 | 11.6 | 58.0 | 36 | 3 | US-08-404-796-124 | Sequence 124, App |
| C 121 | 12 | 60.0 | 84 | 2 | US-08-523-125-8 | Sequence 8, Appl | C 194 | 11.6 | 58.0 | 36 | 3 | US-08-931-869-124 | Sequence 124, App |
| C 122 | 12 | 60.0 | 84 | 3 | US-08-660-561A-8 | Sequence 8, Appl | C 195 | 11.6 | 58.0 | 36 | 4 | US-09-350-399-124 | Sequence 124, App |
| C 123 | 12 | 60.0 | 84 | 4 | US-09-366-627A-7 | Sequence 7, Appl | C 196 | 11.6 | 58.0 | 40 | 4 | US-09-091-814-84 | Sequence 84, Appl |
| C 124 | 12 | 60.0 | 87 | 2 | US-08-523-125-10 | Sequence 10, Appl | C 197 | 11.6 | 58.0 | 40 | 4 | US-09-091-814-85 | Sequence 85, Appl |
| C 125 | 12 | 60.0 | 87 | 3 | US-08-660-561A-10 | Sequence 10, Appl | C 198 | 11.6 | 58.0 | 43 | 1 | US-08-129-151A-4 | Sequence 4, Appl |
| C 126 | 12 | 60.0 | 87 | 4 | US-09-366-627A-9 | Sequence 9, Appl | C 199 | 11.6 | 58.0 | 43 | 2 | US-08-715-579-4 | Sequence 4, Appl |
| C 127 | 12 | 60.0 | 89 | 3 | US-08-787-739-94 | Sequence 94, Appl | C 200 | 11.6 | 58.0 | 44 | 2 | US-08-935-450-14 | Sequence 14, Appl |
| C 128 | 12 | 60.0 | 89 | 4 | US-09-178-115-94 | Sequence 94, Appl | C 201 | 11.6 | 58.0 | 51 | 1 | US-07-936-163-33 | Sequence 33, Appl |
| C 129 | 12 | 60.0 | 89 | 4 | US-09-177-776-94 | Sequence 94, Appl | C 202 | 11.6 | 58.0 | 51 | 4 | US-08-729-601A-80 | Sequence 80, Appl |
| C 130 | 12 | 60.0 | 96 | 3 | US-08-484-322-28 | Sequence 28, Appl | C 203 | 11.6 | 58.0 | 55 | 2 | US-08-184-009-180 | Sequence 180, App |
| C 131 | 12 | 60.0 | 96 | 3 | US-08-484-322-32 | Sequence 32, Appl | C 204 | 11.6 | 58.0 | 55 | 2 | US-08-458-336-180 | Sequence 180, App |
| C 132 | 11.8 | 59.0 | 18 | 4 | US-09-290-577-13 | Sequence 13, Appl | C 205 | 11.6 | 58.0 | 55 | 4 | US-08-460-736-180 | Sequence 180, App |
| C 133 | 11.8 | 59.0 | 18 | 4 | US-09-290-452-13 | Sequence 13, Appl | C 206 | 11.6 | 58.0 | 79 | 5 | PCT-US95-05600-13 | Sequence 13, Appl |
| C 134 | 11.8 | 59.0 | 18 | 4 | US-09-290-338-13 | Sequence 13, Appl | C 207 | 11.6 | 58.0 | 81 | 4 | US-08-749-066A-10 | Sequence 10, Appl |
| C 135 | 11.8 | 59.0 | 20 | 3 | US-07-929-204-7 | Sequence 7, Appl | C 208 | 11.6 | 58.0 | 81 | 4 | US-08-749-066A-11 | Sequence 11, Appl |
| C 136 | 11.8 | 59.0 | 20 | 3 | US-08-532-896-42 | Sequence 42, Appl | C 209 | 11.6 | 58.0 | 85 | 4 | US-09-025-765B-123 | Sequence 123, App |
| C 137 | 11.8 | 59.0 | 20 | 4 | US-09-487-445-85 | Sequence 85, Appl | C 210 | 11.6 | 58.0 | 96 | 3 | US-08-484-332-40 | Sequence 40, Appl |
| C 138 | 11.8 | 59.0 | 22 | 1 | US-08-336-708A-6 | Sequence 6, Appl | C 211 | 11.6 | 58.0 | 100 | 2 | US-08-009-265-33 | Sequence 33, Appl |
| C 139 | 11.8 | 59.0 | 22 | 3 | US-08-343-998-1 | Sequence 1, Appl | C 212 | 11.6 | 58.0 | 100 | 2 | US-08-322-679-6 | Sequence 6, Appl |
| C 140 | 11.8 | 59.0 | 22 | 5 | PCT-US94-06280-6 | Sequence 6, Appl | C 213 | 11.6 | 58.0 | 100 | 4 | US-08-686-992A-18 | Sequence 18, Appl |
| C 141 | 11.8 | 59.0 | 24 | 1 | US-07-972-791-10 | Sequence 10, Appl | C 214 | 11.4 | 57.0 | 15 | 1 | US-08-258-553-2 | Sequence 2, Appl |
| C 142 | 11.8 | 59.0 | 24 | 1 | US-07-972-791-15 | Sequence 15, Appl | C 215 | 11.4 | 57.0 | 15 | 2 | US-08-489-266-6 | Sequence 6, Appl |
| C 143 | 11.8 | 59.0 | 24 | 2 | US-08-859-998-1300 | Sequence 1300, Ap | C 216 | 11.4 | 57.0 | 15 | 3 | US-08-139-459-1 | Sequence 1, Appl |
| C 144 | 11.8 | 59.0 | 24 | 3 | US-09-102-830-14 | Sequence 14, Appl | C 217 | 11.4 | 57.0 | 15 | 4 | US-09-450-072-22 | Sequence 22, Appl |
| C 145 | 11.8 | 59.0 | 24 | 3 | US-09-312-405-11 | Sequence 11, Appl | C 218 | 11.4 | 57.0 | 17 | 4 | US-08-584-040-4184 | Sequence 4184, Ap |
| C 146 | 11.8 | 59.0 | 24 | 4 | US-09-493-351B-11 | Sequence 11, Appl | C 219 | 11.4 | 57.0 | 18 | 4 | US-08-584-040-4185 | Sequence 4185, Ap |
| C 147 | 11.8 | 59.0 | 24 | 4 | US-09-494-102A-9 | Sequence 9, Appl | C 220 | 11.4 | 57.0 | 18 | 4 | US-08-584-040-4185 | Sequence 4185, Ap |
| C 148 | 11.8 | 59.0 | 24 | 4 | US-09-225-928-1300 | Sequence 1300, Ap | C 221 | 11.4 | 57.0 | 19 | 1 | US-08-392-419-8 | Sequence 6241, Ap |
| C 149 | 11.8 | 59.0 | 24 | 6 | 5310649-3 | Patent No. 5310649 | C 222 | 11.4 | 57.0 | 19 | 1 | US-08-487-141B-5 | Sequence 8, Appl |
| C 150 | 11.8 | 59.0 | 24 | 6 | 5310649-8 | Patent No. 5310649 | C 223 | 11.4 | 57.0 | 20 | 1 | US-08-487-141B-5 | Sequence 8, Appl |
| C 151 | 11.8 | 59.0 | 26 | 3 | US-08-464-582-14 | Sequence 14, Appl | C 224 | 11.4 | 57.0 | 20 | 1 | US-08-487-141B-8 | Sequence 8, Appl |
| C 152 | 11.8 | 59.0 | 26 | 4 | US-08-462-513-14 | Sequence 14, Appl | C 225 | 11.4 | 57.0 | 20 | 2 | US-08-927-561-5 | Sequence 5, Appl |
| C 153 | 11.8 | 59.0 | 27 | 2 | US-08-859-998-245 | Sequence 245, App | C 226 | 11.4 | 57.0 | 20 | 2 | US-08-927-561-8 | Sequence 8, Appl |
| C 154 | 11.8 | 59.0 | 27 | 4 | US-09-225-928-245 | Sequence 245, App | C 227 | 11.4 | 57.0 | 20 | 3 | US-08-882-046-68 | Sequence 68, Appl |
| C 155 | 11.8 | 59.0 | 28 | 1 | US-08-244-469-7 | Sequence 7, Appl | C 228 | 11.4 | 57.0 | 20 | 4 | US-08-800-215C-12 | Sequence 12, Appl |
| C 156 | 11.8 | 59.0 | 28 | 5 | PCT-US92-08417-3 | Sequence 3, Appl | C 229 | 11.4 | 57.0 | 20 | 5 | PCT-US96-09388-5 | Sequence 5, Appl |
| C 157 | 11.8 | 59.0 | 30 | 1 | PCT-US92-08417-7 | Sequence 7, Appl | C 230 | 11.4 | 57.0 | 21 | 2 | PCT-US96-09388-8 | Sequence 8, Appl |
| C 158 | 11.8 | 59.0 | 30 | 1 | US-08-094-533B-7 | Sequence 7, Appl | C 231 | 11.4 | 57.0 | 21 | 2 | US-08-468-819-32 | Sequence 32, Appl |
| C 159 | 11.8 | 59.0 | 30 | 1 | US-08-276-860A-7 | Sequence 7, Appl | C 232 | 11.4 | 57.0 | 21 | 2 | US-08-468-819-53 | Sequence 53, Appl |
| C 160 | 11.8 | 59.0 | 30 | 1 | US-08-444-393-7 | Sequence 7, Appl | C 233 | 11.4 | 57.0 | 21 | 2 | US-08-468-819-54 | Sequence 54, Appl |
| C 161 | 11.8 | 59.0 | 30 | 1 | US-08-799-913-7 | Sequence 7, Appl | C 234 | 11.4 | 57.0 | 22 | 1 | US-08-279-751B-10 | Sequence 10, Appl |
| C 162 | 11.8 | 59.0 | 30 | 2 | US-08-711-893-7 | Sequence 7, Appl | C 235 | 11.4 | 57.0 | 22 | 1 | US-08-279-751B-57 | Sequence 57, Appl |
| C 163 | 11.8 | 59.0 | 30 | 2 | US-09-150-200-7 | Sequence 7, Appl | C 236 | 11.4 | 57.0 | 22 | 1 | US-08-487-141B-7 | Sequence 7, Appl |
| C 164 | 11.8 | 59.0 | 30 | 3 | US-09-150-200-7 | Sequence 7, Appl | C 237 | 11.4 | 57.0 | 22 | 2 | US-08-927-561-7 | Sequence 7, Appl |
| C 165 | 11.8 | 59.0 | 30 | 4 | US-09-452-370-7 | Sequence 7, Appl | C 238 | 11.4 | 57.0 | 22 | 2 | US-08-866-958-10 | Sequence 10, Appl |
| C 166 | 11.8 | 59.0 | 30 | 4 | US-09-452-370-7 | Sequence 7, Appl | C 239 | 11.4 | 57.0 | 22 | 2 | US-08-866-958-10 | Sequence 10, Appl |
| C 167 | 11.8 | 59.0 | 30 | 5 | US-09-461-649-7 | Sequence 7, Appl | C 240 | 11.4 | 57.0 | 22 | 5 | PCT-US96-09388-7 | Sequence 7, Appl |
| C 168 | 11.8 | 59.0 | 30 | 5 | PCT-US94-08119-7 | Sequence 7, Appl | C 241 | 11.4 | 57.0 | 25 | 1 | US-08-487-141B-103 | Sequence 103, App |
| C 169 | 11.8 | 59.0 | 30 | 5 | PCT-US94-08120-7 | Sequence 7, Appl | C 242 | 11.4 | 57.0 | 25 | 2 | US-08-927-561-103 | Sequence 103, App |
| C 170 | 11.8 | 59.0 | 36 | 2 | US-08-585-684B-2160 | Sequence 2160, Ap | C 243 | 11.4 | 57.0 | 25 | 5 | PCT-US96-09388-103 | Sequence 103, App |
| C 171 | 11.8 | 59.0 | 36 | 4 | US-09-038-073-2160 | Sequence 2160, Ap | C 244 | 11.4 | 57.0 | 26 | 1 | US-08-469-466-8 | Sequence 8, Appl |
| C 172 | 11.8 | 59.0 | 43 | 2 | US-08-330-394A-25 | Sequence 25, Appl | C 245 | 11.4 | 57.0 | 26 | 2 | US-08-469-466-8 | Sequence 8, Appl |
| C 173 | 11.8 | 59.0 | 53 | 1 | US-08-541-950B-2 | Sequence 2, Appl | C 246 | 11.4 | 57.0 | 27 | 4 | US-09-254-023B-36 | Sequence 36, Appl |

| | | | | | | | | | | | | | |
|-----|------|------|----|---|---------------------|--------------------|-----|------|------|----|---|---------------------|--------------------|
| 247 | 11.4 | 57.0 | 29 | 4 | US-09-450-072-3 | Sequence 3, Appl1 | 320 | 11.2 | 56.0 | 26 | 1 | US-08-429-121B-21 | Sequence 21, Appl1 |
| 248 | 11.4 | 57.0 | 30 | 1 | US-09-450-072-2 | Sequence 2, Appl1 | 321 | 11.2 | 56.0 | 26 | 2 | US-09-003-067-21 | Sequence 21, Appl1 |
| 249 | 11.4 | 57.0 | 33 | 1 | US-08-201-118-15 | Sequence 15, Appl1 | 322 | 11.2 | 56.0 | 26 | 3 | US-08-974-899-22 | Sequence 22, Appl1 |
| 250 | 11.4 | 57.0 | 33 | 1 | US-08-201-118-15 | Sequence 21, Appl1 | 323 | 11.2 | 56.0 | 27 | 3 | US-08-985-162-980 | Sequence 980, App |
| 251 | 11.4 | 57.0 | 33 | 2 | US-08-238-821B-15 | Sequence 15, Appl1 | 324 | 11.2 | 56.0 | 27 | 3 | US-08-985-162-1066 | Sequence 1066, App |
| 252 | 11.4 | 57.0 | 33 | 2 | US-08-238-821B-21 | Sequence 21, Appl1 | 325 | 11.2 | 56.0 | 27 | 3 | US-08-998-099-154 | Sequence 154, App |
| 253 | 11.4 | 57.0 | 33 | 5 | PCT-US95-05744-15 | Sequence 15, Appl1 | 326 | 11.2 | 56.0 | 27 | 3 | US-08-998-099-276 | Sequence 276, App |
| 254 | 11.4 | 57.0 | 33 | 5 | PCT-US95-05744-21 | Sequence 21, Appl1 | 327 | 11.2 | 56.0 | 27 | 4 | US-08-584-040-437 | Sequence 437, App |
| 255 | 11.4 | 57.0 | 36 | 1 | US-08-182-530-11 | Sequence 11, Appl1 | 328 | 11.2 | 56.0 | 27 | 4 | US-08-584-040-3441 | Sequence 3441, App |
| 256 | 11.4 | 57.0 | 36 | 1 | US-08-182-530-11 | Sequence 11, Appl1 | 329 | 11.2 | 56.0 | 27 | 4 | US-08-584-040-4864 | Sequence 4864, App |
| 257 | 11.4 | 57.0 | 36 | 1 | US-08-050-058B-11 | Sequence 11, Appl1 | 330 | 11.2 | 56.0 | 27 | 4 | US-08-584-040-7210 | Sequence 7210, App |
| 258 | 11.4 | 57.0 | 36 | 1 | US-08-050-058B-11 | Sequence 11, Appl1 | 331 | 11.2 | 56.0 | 28 | 1 | US-08-468-036-21 | Sequence 21, Appl1 |
| 259 | 11.4 | 57.0 | 36 | 1 | US-08-463-587A-11 | Sequence 11, Appl1 | 332 | 11.2 | 56.0 | 28 | 2 | US-08-376-843-21 | Sequence 21, Appl1 |
| 260 | 11.4 | 57.0 | 36 | 2 | US-08-463-667A-1 | Sequence 1, Appl1 | 333 | 11.2 | 56.0 | 30 | 2 | US-08-683-262B-15 | Sequence 15, Appl1 |
| 261 | 11.4 | 57.0 | 36 | 2 | US-08-441-871-5 | Sequence 5, Appl1 | 334 | 11.2 | 56.0 | 30 | 4 | US-09-173-914-12 | Sequence 12, Appl1 |
| 262 | 11.4 | 57.0 | 36 | 2 | US-08-441-871-15 | Sequence 15, Appl1 | 335 | 11.2 | 56.0 | 30 | 4 | US-09-361-707-15 | Sequence 15, Appl1 |
| 263 | 11.4 | 57.0 | 36 | 3 | US-08-923-854-1 | Sequence 1, Appl1 | 336 | 11.2 | 56.0 | 32 | 4 | US-09-303-064-33 | Sequence 33, Appl1 |
| 264 | 11.4 | 57.0 | 36 | 5 | PCT-US91-09133-1 | Sequence 1, Appl1 | 337 | 11.2 | 56.0 | 32 | 4 | US-09-086-503-33 | Sequence 33, Appl1 |
| 265 | 11.4 | 57.0 | 36 | 5 | PCT-US91-09133-11 | Sequence 11, Appl1 | 338 | 11.2 | 56.0 | 33 | 1 | US-08-053-131-153 | Sequence 153, App |
| 266 | 11.4 | 57.0 | 38 | 2 | US-08-596-387B-20 | Sequence 20, Appl1 | 339 | 11.2 | 56.0 | 33 | 1 | US-08-096-762-153 | Sequence 153, App |
| 267 | 11.4 | 57.0 | 38 | 4 | US-09-067-615-20 | Sequence 20, Appl1 | 340 | 11.2 | 56.0 | 33 | 4 | US-09-042-353-312 | Sequence 312, App |
| 268 | 11.4 | 57.0 | 38 | 5 | PCT-US95-09816A-20 | Sequence 20, Appl1 | 341 | 11.2 | 56.0 | 33 | 4 | US-08-758-417A-160 | Sequence 160, App |
| 269 | 11.4 | 57.0 | 39 | 1 | US-08-433-010-33 | Sequence 33, Appl1 | 342 | 11.2 | 56.0 | 34 | 1 | US-08-373-124A-32 | Sequence 32, App |
| 270 | 11.4 | 57.0 | 39 | 1 | US-08-482-882-109 | Sequence 109, App | 343 | 11.2 | 56.0 | 34 | 1 | US-08-435-628-32 | Sequence 32, App |
| 271 | 11.4 | 57.0 | 39 | 1 | US-08-483-389-109 | Sequence 109, App | 344 | 11.2 | 56.0 | 36 | 1 | US-08-311-760A-98 | Sequence 98, Appl1 |
| 272 | 11.4 | 57.0 | 39 | 2 | US-08-487-113D-109 | Sequence 109, App | 345 | 11.2 | 56.0 | 36 | 1 | US-08-291-932A-722 | Sequence 722, App |
| 273 | 11.4 | 57.0 | 39 | 2 | US-08-473-503-109 | Sequence 109, App | 346 | 11.2 | 56.0 | 36 | 1 | US-08-311-846C-378 | Sequence 378, App |
| 274 | 11.4 | 57.0 | 39 | 2 | US-08-483-932-109 | Sequence 109, App | 347 | 11.2 | 56.0 | 36 | 2 | US-08-774-110-98 | Sequence 98, Appl1 |
| 275 | 11.4 | 57.0 | 39 | 3 | US-08-720-420A-109 | Sequence 109, App | 348 | 11.2 | 56.0 | 36 | 2 | US-08-685-576-15 | Sequence 15, Appl1 |
| 276 | 11.4 | 57.0 | 39 | 3 | US-08-714-017-109 | Sequence 109, App | 349 | 11.2 | 56.0 | 36 | 4 | US-09-303-064-34 | Sequence 34, Appl1 |
| 277 | 11.4 | 57.0 | 39 | 3 | US-08-863-790-44 | Sequence 44, Appl1 | 350 | 11.2 | 56.0 | 36 | 4 | US-09-086-503-34 | Sequence 34, Appl1 |
| 278 | 11.4 | 57.0 | 39 | 3 | US-08-475-680-109 | Sequence 109, App | 351 | 11.2 | 56.0 | 38 | 1 | US-08-390-505-357 | Sequence 757, App |
| 279 | 11.4 | 57.0 | 45 | 1 | US-08-296-749-44 | Sequence 44, Appl1 | 352 | 11.2 | 56.0 | 38 | 1 | US-08-373-124A-1648 | Sequence 1648, App |
| 280 | 11.4 | 57.0 | 45 | 1 | US-08-171-389-235 | Sequence 235, App | 353 | 11.2 | 56.0 | 38 | 1 | US-08-435-634-357 | Sequence 757, App |
| 281 | 11.4 | 57.0 | 45 | 2 | US-08-123-936-235 | Sequence 235, App | 354 | 11.2 | 56.0 | 38 | 1 | US-08-435-628-1648 | Sequence 1648, App |
| 282 | 11.4 | 57.0 | 45 | 2 | US-08-475-228A-235 | Sequence 235, App | 355 | 11.2 | 56.0 | 38 | 2 | US-08-292-620A-2093 | Sequence 2093, App |
| 283 | 11.4 | 57.0 | 45 | 3 | US-08-482-080A-235 | Sequence 235, App | 356 | 11.2 | 56.0 | 38 | 2 | US-08-292-620A-2273 | Sequence 2273, App |
| 284 | 11.4 | 57.0 | 45 | 5 | PCT-US93-12388-235 | Sequence 235, App | 357 | 11.2 | 56.0 | 38 | 2 | US-08-292-620A-2363 | Sequence 2363, App |
| 285 | 11.4 | 57.0 | 52 | 2 | US-08-292-620A-1566 | Sequence 1566, App | 358 | 11.2 | 56.0 | 38 | 3 | US-09-071-845-2093 | Sequence 2093, App |
| 286 | 11.4 | 57.0 | 52 | 3 | US-09-071-845-1566 | Sequence 1566, App | 359 | 11.2 | 56.0 | 38 | 3 | US-09-071-845-2273 | Sequence 2273, App |
| 287 | 11.4 | 57.0 | 64 | 3 | US-09-197-801-5 | Sequence 5, Appl1 | 360 | 11.2 | 56.0 | 38 | 3 | US-09-071-845-2363 | Sequence 2363, App |
| 288 | 11.4 | 57.0 | 64 | 4 | US-09-551-028-5 | Sequence 5, Appl1 | 361 | 11.2 | 56.0 | 40 | 2 | US-08-425-684-91 | Sequence 91, Appl1 |
| 289 | 11.4 | 57.0 | 72 | 2 | US-08-822-028-52 | Sequence 52, Appl1 | 362 | 11.2 | 56.0 | 40 | 2 | US-08-675-502-91 | Sequence 91, Appl1 |
| 290 | 11.4 | 57.0 | 72 | 2 | US-08-822-028-55 | Sequence 55, Appl1 | 363 | 11.2 | 56.0 | 40 | 4 | US-09-303-064-32 | Sequence 32, Appl1 |
| 291 | 11.4 | 57.0 | 72 | 2 | US-08-822-028-56 | Sequence 56, Appl1 | 364 | 11.2 | 56.0 | 40 | 4 | US-09-086-503-32 | Sequence 32, Appl1 |
| 292 | 11.4 | 57.0 | 72 | 2 | US-08-822-028-57 | Sequence 57, Appl1 | 365 | 11.2 | 56.0 | 46 | 1 | US-08-271-880A-110 | Sequence 110, App |
| 293 | 11.4 | 57.0 | 72 | 4 | US-08-479-285-52 | Sequence 52, Appl1 | 366 | 11.2 | 56.0 | 46 | 2 | US-08-910-408-110 | Sequence 110, App |
| 294 | 11.4 | 57.0 | 72 | 4 | US-08-479-285-55 | Sequence 55, Appl1 | 367 | 11.2 | 56.0 | 46 | 3 | US-09-249-215-110 | Sequence 110, App |
| 295 | 11.4 | 57.0 | 72 | 4 | US-08-479-285-56 | Sequence 56, Appl1 | 368 | 11.2 | 56.0 | 48 | 1 | US-08-471-791-36 | Sequence 36, Appl1 |
| 296 | 11.4 | 57.0 | 72 | 4 | US-08-479-285-57 | Sequence 57, Appl1 | 369 | 11.2 | 56.0 | 48 | 5 | PCT-US91-01746-36 | Sequence 36, Appl1 |
| 297 | 11.4 | 56.0 | 18 | 3 | US-08-611-587-15 | Sequence 15, Appl1 | 370 | 11.2 | 56.0 | 50 | 1 | US-08-171-389-473 | Sequence 473, App |
| 298 | 11.2 | 56.0 | 20 | 3 | US-08-776-900C-3 | Sequence 3, Appl1 | 371 | 11.2 | 56.0 | 50 | 2 | US-08-123-936-473 | Sequence 473, App |
| 299 | 11.2 | 56.0 | 20 | 3 | US-09-078-290A-4 | Sequence 4, Appl1 | 372 | 11.2 | 56.0 | 50 | 2 | US-08-475-228A-473 | Sequence 473, App |
| 300 | 11.2 | 56.0 | 20 | 4 | US-09-268-195C-3 | Sequence 3, Appl1 | 373 | 11.2 | 56.0 | 50 | 2 | US-08-850-049-59 | Sequence 59, App |
| 301 | 11.2 | 56.0 | 20 | 4 | US-09-429-322-89 | Sequence 89, Appl1 | 374 | 11.2 | 56.0 | 50 | 2 | US-08-050-478-59 | Sequence 59, App |
| 302 | 11.2 | 56.0 | 21 | 1 | US-08-078-683A-17 | Sequence 17, Appl1 | 375 | 11.2 | 56.0 | 50 | 3 | US-08-482-080A-473 | Sequence 473, App |
| 303 | 11.2 | 56.0 | 21 | 1 | US-08-078-683A-18 | Sequence 18, Appl1 | 376 | 11.2 | 56.0 | 50 | 4 | US-09-414-117-59 | Sequence 59, App |
| 304 | 11.2 | 56.0 | 21 | 4 | US-08-853-980-21 | Sequence 21, Appl1 | 377 | 11.2 | 56.0 | 50 | 5 | PCT-US93-12388A-473 | Sequence 473, App |
| 305 | 11.2 | 56.0 | 22 | 1 | US-08-343-785-26 | Sequence 26, Appl1 | 378 | 11.2 | 56.0 | 51 | 4 | US-09-282-147-50 | Sequence 50, App |
| 306 | 11.2 | 56.0 | 22 | 2 | US-08-462-221-26 | Sequence 26, Appl1 | 379 | 11.2 | 56.0 | 60 | 4 | US-09-025-203-33 | Sequence 23, Appl1 |
| 307 | 11.2 | 56.0 | 22 | 3 | US-08-946-458-26 | Sequence 26, Appl1 | 380 | 11.2 | 56.0 | 62 | 1 | US-08-462-388-7 | Sequence 7, Appl1 |
| 308 | 11.2 | 56.0 | 23 | 5 | PCT-US92-08417-32 | Sequence 32, Appl1 | 381 | 11.2 | 56.0 | 63 | 1 | US-08-207-996-8 | Sequence 8, Appl1 |
| 309 | 11.2 | 56.0 | 23 | 5 | PCT-US92-08417-33 | Sequence 33, Appl1 | 382 | 11.2 | 56.0 | 63 | 1 | US-08-616-133-10 | Sequence 10, Appl1 |
| 310 | 11.2 | 56.0 | 23 | 5 | PCT-US92-08417-40 | Sequence 40, Appl1 | 383 | 11.2 | 56.0 | 63 | 1 | US-08-616-133-11 | Sequence 11, Appl1 |
| 311 | 11.2 | 56.0 | 23 | 5 | PCT-US92-08417-41 | Sequence 41, Appl1 | 384 | 11.2 | 56.0 | 63 | 1 | US-08-802-985-10 | Sequence 10, Appl1 |
| 312 | 11.2 | 56.0 | 24 | 1 | US-07-968-194A-7 | Sequence 7, Appl1 | 385 | 11.2 | 56.0 | 63 | 1 | US-08-802-985-11 | Sequence 11, Appl1 |
| 313 | 11.2 | 56.0 | 24 | 1 | US-08-258-152-13 | Sequence 13, Appl1 | 386 | 11.2 | 56.0 | 63 | 2 | US-08-760-840A-8 | Sequence 8, Appl1 |
| 314 | 11.2 | 56.0 | 24 | 2 | US-08-076-299A-13 | Sequence 13, Appl1 | 387 | 11.2 | 56.0 | 63 | 3 | US-09-266-119-8 | Sequence 8, Appl1 |
| 315 | 11.2 | 56.0 | 24 | 2 | US-08-438-582-13 | Sequence 13, Appl1 | 388 | 11.2 | 56.0 | 63 | 4 | US-09-602-709-8 | Sequence 8, Appl1 |
| 316 | 11.2 | 56.0 | 24 | 4 | US-08-793-660B-8 | Sequence 8, Appl1 | 389 | 11.2 | 56.0 | 67 | 4 | US-09-025-769B-83 | Sequence 83, Appl1 |
| 317 | 11.2 | 56.0 | 24 | 4 | US-09-266-596-13 | Sequence 13, Appl1 | 390 | 11.2 | 56.0 | 79 | 1 | US-08-238-863-63 | Sequence 63, Appl1 |
| 318 | 11.2 | 56.0 | 24 | 4 | US-08-479-737-7 | Sequence 7, Appl1 | 391 | 11.2 | 56.0 | 79 | 1 | US-08-443-407-63 | Sequence 63, Appl1 |
| 319 | 11.2 | 56.0 | 26 | 1 | US-07-769-624A-5 | Sequence 5, Appl1 | 392 | 11.2 | 56.0 | 79 | 5 | PCT-US95-05600-207 | Sequence 207, App |

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|-----|------|------|----|---|--------------------|--------------------|-----|----|------|----|---|--------------------|--------------------|
| 333 | 11.2 | 56.0 | 81 | 4 | US-09-461-697-55 | Sequence 55, App1 | 466 | 11 | 55.0 | 27 | 3 | US-08-757-024-189 | Sequence 189, App |
| 334 | 11.2 | 56.0 | 91 | 2 | US-07-901-713A-14 | Sequence 14, App1 | 467 | 11 | 55.0 | 27 | 3 | US-08-757-024-226 | Sequence 226, App |
| 335 | 11.2 | 56.0 | 93 | 4 | US-08-553-501A-47 | Sequence 47, App1 | 468 | 11 | 55.0 | 27 | 3 | US-08-757-024-262 | Sequence 262, App |
| 336 | 11.2 | 56.0 | 93 | 2 | US-08-481-658B-32 | Sequence 32, App1 | 469 | 11 | 55.0 | 27 | 3 | US-08-757-024-297 | Sequence 297, App |
| 337 | 11.2 | 56.0 | 93 | 2 | US-08-477-504A-32 | Sequence 32, App1 | 470 | 11 | 55.0 | 27 | 3 | US-08-757-024-331 | Sequence 331, App |
| 338 | 11.2 | 56.0 | 93 | 2 | US-08-486-756A-32 | Sequence 32, App1 | 471 | 11 | 55.0 | 27 | 4 | US-09-257-584-25 | Sequence 25, App1 |
| 339 | 11.2 | 56.0 | 93 | 2 | US-08-485-862B-32 | Sequence 32, App1 | 472 | 11 | 55.0 | 27 | 4 | US-09-101-927-5 | Sequence 5, App1 |
| 400 | 11.2 | 56.0 | 93 | 2 | US-08-787-739-32 | Sequence 32, App1 | 473 | 11 | 55.0 | 27 | 4 | US-08-584-040-6467 | Sequence 6467, App |
| 401 | 11.2 | 56.0 | 93 | 3 | US-08-487-077A-32 | Sequence 32, App1 | 474 | 11 | 55.0 | 27 | 6 | US-08-859-998-1303 | Sequence 1303, App |
| 402 | 11.2 | 56.0 | 93 | 3 | US-08-485-863A-32 | Sequence 32, App1 | 475 | 11 | 55.0 | 28 | 2 | US-08-757-024-30 | Sequence 30, App1 |
| 403 | 11.2 | 56.0 | 93 | 3 | US-09-205-231-47 | Sequence 47, App1 | 476 | 11 | 55.0 | 28 | 3 | US-08-757-024-71 | Sequence 71, App1 |
| 404 | 11.2 | 56.0 | 93 | 4 | US-08-485-049D-32 | Sequence 32, App1 | 477 | 11 | 55.0 | 28 | 3 | US-08-757-024-111 | Sequence 111, App |
| 405 | 11.2 | 56.0 | 93 | 4 | US-09-178-115-32 | Sequence 32, App1 | 478 | 11 | 55.0 | 28 | 3 | US-08-757-024-150 | Sequence 150, App |
| 406 | 11.2 | 56.0 | 93 | 4 | US-09-177-776-32 | Sequence 32, App1 | 479 | 11 | 55.0 | 28 | 3 | US-08-757-024-188 | Sequence 188, App |
| 407 | 11.2 | 55.0 | 17 | 4 | US-08-584-040-8022 | Sequence 8022, App | 480 | 11 | 55.0 | 28 | 3 | US-08-757-024-225 | Sequence 225, App |
| 408 | 11 | 55.0 | 17 | 4 | US-08-584-040-8023 | Sequence 8023, App | 481 | 11 | 55.0 | 28 | 3 | US-08-757-024-261 | Sequence 261, App |
| 409 | 11 | 55.0 | 19 | 3 | US-08-757-024-339 | Sequence 339, App | 482 | 11 | 55.0 | 28 | 3 | US-08-757-024-286 | Sequence 286, App |
| 410 | 11 | 55.0 | 19 | 4 | US-09-168-406A-39 | Sequence 29, App1 | 483 | 11 | 55.0 | 28 | 3 | US-08-757-024-330 | Sequence 330, App |
| 411 | 11 | 55.0 | 20 | 3 | US-08-757-024-304 | Sequence 304, App | 484 | 11 | 55.0 | 28 | 3 | US-09-225-928-1303 | Sequence 1303, App |
| 412 | 11 | 55.0 | 20 | 3 | US-08-757-024-338 | Sequence 338, App | 485 | 11 | 55.0 | 29 | 3 | US-08-757-024-29 | Sequence 29, App1 |
| 413 | 11 | 55.0 | 21 | 3 | US-08-757-024-268 | Sequence 268, App | 486 | 11 | 55.0 | 29 | 3 | US-08-757-024-70 | Sequence 70, App1 |
| 414 | 11 | 55.0 | 21 | 3 | US-08-757-024-303 | Sequence 303, App | 487 | 11 | 55.0 | 29 | 3 | US-08-757-024-110 | Sequence 110, App |
| 415 | 11 | 55.0 | 21 | 3 | US-08-757-024-337 | Sequence 337, App | 488 | 11 | 55.0 | 29 | 3 | US-08-757-024-149 | Sequence 149, App |
| 416 | 11 | 55.0 | 22 | 3 | US-08-757-024-231 | Sequence 231, App | 489 | 11 | 55.0 | 29 | 3 | US-08-757-024-187 | Sequence 187, App |
| 417 | 11 | 55.0 | 22 | 3 | US-08-757-024-267 | Sequence 267, App | 490 | 11 | 55.0 | 29 | 3 | US-08-757-024-224 | Sequence 224, App |
| 418 | 11 | 55.0 | 22 | 3 | US-08-757-024-302 | Sequence 302, App | 491 | 11 | 55.0 | 29 | 3 | US-08-757-024-260 | Sequence 260, App |
| 419 | 11 | 55.0 | 22 | 3 | US-08-757-024-336 | Sequence 336, App | 492 | 11 | 55.0 | 29 | 3 | US-08-757-024-329 | Sequence 329, App |
| 420 | 11 | 55.0 | 22 | 4 | US-09-026-601-11 | Sequence 11, App1 | 493 | 11 | 55.0 | 29 | 3 | US-08-757-024-339 | Sequence 339, App |
| 421 | 11 | 55.0 | 23 | 3 | US-08-776-900C-6 | Sequence 6, App1 | 494 | 11 | 55.0 | 30 | 2 | US-08-117-952-630 | Sequence 630, App |
| 422 | 11 | 55.0 | 23 | 3 | US-08-757-024-193 | Sequence 193, App | 495 | 11 | 55.0 | 30 | 2 | US-08-757-024-28 | Sequence 28, App1 |
| 423 | 11 | 55.0 | 23 | 3 | US-08-757-024-230 | Sequence 230, App | 496 | 11 | 55.0 | 30 | 3 | US-08-757-024-69 | Sequence 69, App1 |
| 424 | 11 | 55.0 | 23 | 3 | US-08-757-024-266 | Sequence 266, App | 497 | 11 | 55.0 | 30 | 3 | US-08-757-024-109 | Sequence 109, App |
| 425 | 11 | 55.0 | 23 | 3 | US-08-757-024-301 | Sequence 301, App | 498 | 11 | 55.0 | 30 | 3 | US-08-757-024-148 | Sequence 148, App |
| 426 | 11 | 55.0 | 23 | 3 | US-08-757-024-335 | Sequence 335, App | 499 | 11 | 55.0 | 30 | 4 | US-08-849-488-2 | Sequence 2, App1 |
| 427 | 11 | 55.0 | 23 | 3 | US-08-258-287B-78 | Sequence 78, App1 | 500 | 11 | 55.0 | 30 | 4 | US-08-090-369-20 | Sequence 20, App1 |
| 428 | 11 | 55.0 | 23 | 3 | US-08-368-704C-76 | Sequence 76, App1 | 501 | 11 | 55.0 | 30 | 3 | US-08-757-024-186 | Sequence 186, App |
| 429 | 11 | 55.0 | 23 | 4 | US-09-268-195C-6 | Sequence 6, App1 | 502 | 11 | 55.0 | 30 | 3 | US-08-757-024-223 | Sequence 223, App |
| 430 | 11 | 55.0 | 24 | 1 | US-08-265-628-10 | Sequence 10, App1 | 503 | 11 | 55.0 | 30 | 3 | US-08-757-024-259 | Sequence 259, App |
| 431 | 11 | 55.0 | 24 | 2 | US-08-588-983-40 | Sequence 40, App1 | 504 | 11 | 55.0 | 30 | 3 | US-08-757-024-294 | Sequence 294, App |
| 432 | 11 | 55.0 | 24 | 2 | US-08-588-976-40 | Sequence 40, App1 | 505 | 11 | 55.0 | 30 | 4 | US-08-757-024-328 | Sequence 328, App |
| 433 | 11 | 55.0 | 24 | 3 | US-08-947-965-22 | Sequence 22, App1 | 506 | 11 | 55.0 | 30 | 4 | US-08-090-369-20 | Sequence 2, App1 |
| 434 | 11 | 55.0 | 24 | 3 | US-08-757-024-154 | Sequence 154, App | 507 | 11 | 55.0 | 30 | 4 | US-09-483-971-20 | Sequence 20, App1 |
| 435 | 11 | 55.0 | 24 | 3 | US-08-757-024-192 | Sequence 192, App | 508 | 11 | 55.0 | 30 | 4 | US-08-911-445-21 | Sequence 21, App1 |
| 436 | 11 | 55.0 | 24 | 3 | US-08-757-024-229 | Sequence 229, App | 509 | 11 | 55.0 | 31 | 2 | US-08-757-024-27 | Sequence 27, App1 |
| 437 | 11 | 55.0 | 24 | 3 | US-08-757-024-265 | Sequence 265, App | 510 | 11 | 55.0 | 31 | 3 | US-08-757-024-68 | Sequence 68, App1 |
| 438 | 11 | 55.0 | 24 | 3 | US-08-757-024-300 | Sequence 300, App | 511 | 11 | 55.0 | 31 | 3 | US-08-757-024-108 | Sequence 108, App1 |
| 439 | 11 | 55.0 | 24 | 3 | US-08-757-024-334 | Sequence 334, App | 512 | 11 | 55.0 | 31 | 3 | US-08-757-024-147 | Sequence 147, App |
| 440 | 11 | 55.0 | 24 | 3 | US-08-589-028-20 | Sequence 20, App1 | 513 | 11 | 55.0 | 31 | 3 | US-08-757-024-185 | Sequence 185, App |
| 441 | 11 | 55.0 | 24 | 3 | US-08-784-582-20 | Sequence 20, App1 | 514 | 11 | 55.0 | 31 | 3 | US-08-757-024-222 | Sequence 222, App |
| 442 | 11 | 55.0 | 24 | 4 | US-08-785-271-20 | Sequence 20, App1 | 515 | 11 | 55.0 | 31 | 3 | US-08-757-024-238 | Sequence 238, App |
| 443 | 11 | 55.0 | 24 | 5 | PCR-US95-04094-14 | Sequence 14, App1 | 516 | 11 | 55.0 | 31 | 3 | US-08-757-024-293 | Sequence 293, App |
| 444 | 11 | 55.0 | 25 | 3 | US-08-757-024-114 | Sequence 114, App | 517 | 11 | 55.0 | 31 | 3 | US-08-757-024-293 | Sequence 293, App |
| 445 | 11 | 55.0 | 25 | 3 | US-08-757-024-153 | Sequence 153, App | 518 | 11 | 55.0 | 31 | 4 | US-08-757-024-337 | Sequence 337, App |
| 446 | 11 | 55.0 | 25 | 3 | US-08-757-024-191 | Sequence 191, App | 519 | 11 | 55.0 | 31 | 4 | US-09-382-616A-7 | Sequence 7, App1 |
| 447 | 11 | 55.0 | 25 | 3 | US-08-757-024-228 | Sequence 228, App | 520 | 11 | 55.0 | 31 | 4 | US-09-182-983-21 | Sequence 21, App1 |
| 448 | 11 | 55.0 | 25 | 3 | US-08-757-024-264 | Sequence 264, App | 521 | 11 | 55.0 | 31 | 4 | US-09-029-755C-18 | Sequence 8, App1 |
| 449 | 11 | 55.0 | 25 | 3 | US-08-757-024-299 | Sequence 299, App | 522 | 11 | 55.0 | 31 | 4 | US-08-679-645-338 | Sequence 338, App |
| 450 | 11 | 55.0 | 25 | 3 | US-08-757-024-333 | Sequence 333, App | 523 | 11 | 55.0 | 32 | 3 | US-08-757-024-26 | Sequence 26, App1 |
| 451 | 11 | 55.0 | 26 | 1 | US-08-058-907-6 | Sequence 6, App1 | 524 | 11 | 55.0 | 32 | 3 | US-08-757-024-67 | Sequence 67, App1 |
| 452 | 11 | 55.0 | 26 | 3 | US-08-757-024-73 | Sequence 73, App1 | 525 | 11 | 55.0 | 32 | 3 | US-08-757-024-107 | Sequence 107, App |
| 453 | 11 | 55.0 | 26 | 3 | US-08-757-024-113 | Sequence 113, App | 526 | 11 | 55.0 | 32 | 3 | US-08-757-024-146 | Sequence 146, App |
| 454 | 11 | 55.0 | 26 | 3 | US-08-757-024-152 | Sequence 152, App | 527 | 11 | 55.0 | 32 | 3 | US-08-757-024-184 | Sequence 184, App |
| 455 | 11 | 55.0 | 26 | 3 | US-08-757-024-190 | Sequence 190, App | 528 | 11 | 55.0 | 32 | 3 | US-08-757-024-221 | Sequence 221, App |
| 456 | 11 | 55.0 | 26 | 3 | US-08-757-024-227 | Sequence 227, App | 529 | 11 | 55.0 | 32 | 3 | US-08-757-024-257 | Sequence 257, App |
| 457 | 11 | 55.0 | 26 | 3 | US-08-757-024-263 | Sequence 263, App | 530 | 11 | 55.0 | 32 | 3 | US-08-757-024-292 | Sequence 292, App |
| 458 | 11 | 55.0 | 26 | 3 | US-08-757-024-298 | Sequence 298, App | 531 | 11 | 55.0 | 32 | 3 | US-08-757-024-326 | Sequence 326, App |
| 459 | 11 | 55.0 | 27 | 3 | US-08-757-024-332 | Sequence 332, App | 532 | 11 | 55.0 | 33 | 3 | US-08-757-024-35 | Sequence 25, App1 |
| 460 | 11 | 55.0 | 27 | 1 | US-08-409-199-9 | Sequence 9, App1 | 533 | 11 | 55.0 | 33 | 3 | US-08-757-024-66 | Sequence 66, App1 |
| 461 | 11 | 55.0 | 27 | 2 | US-08-466-103A-29 | Sequence 29, App1 | 534 | 11 | 55.0 | 33 | 3 | US-08-757-024-106 | Sequence 106, App |
| 462 | 11 | 55.0 | 27 | 3 | US-08-757-024-31 | Sequence 31, App1 | 535 | 11 | 55.0 | 33 | 3 | US-08-757-024-145 | Sequence 145, App |
| 463 | 11 | 55.0 | 27 | 3 | US-08-757-024-72 | Sequence 72, App1 | 536 | 11 | 55.0 | 33 | 3 | US-08-757-024-183 | Sequence 183, App |
| 464 | 11 | 55.0 | 27 | 3 | US-08-757-024-112 | Sequence 112, App | 537 | 11 | 55.0 | 33 | 3 | US-08-757-024-220 | Sequence 220, App |
| 465 | 11 | 55.0 | 27 | 3 | US-08-757-024-151 | Sequence 151, App | 538 | 11 | 55.0 | 33 | 3 | US-08-757-024-256 | Sequence 256, App |

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|-------|----|------|----|---|--------------------|--------------------|-------|----|------|----|---|-------------------|--------------------|
| 539 | 11 | 55.0 | 33 | 3 | US-08-757-024-291 | Sequence 291, App | 612 | 11 | 55.0 | 40 | 3 | US-08-757-024-318 | Sequence 318, App |
| 540 | 11 | 55.0 | 33 | 3 | US-08-757-024-325 | Sequence 325, App | C 613 | 11 | 55.0 | 40 | 5 | US-09-249-180-3 | Sequence 3, App11 |
| 541 | 11 | 55.0 | 34 | 3 | US-08-757-024-24 | Sequence 24, App1 | C 614 | 11 | 55.0 | 40 | 4 | PCT-US95-08533-8 | Sequence 8, App11 |
| 542 | 11 | 55.0 | 34 | 3 | US-08-757-024-65 | Sequence 65, App1 | C 615 | 11 | 55.0 | 40 | 6 | 5281520-27 | Patent No. 5281520 |
| 543 | 11 | 55.0 | 34 | 3 | US-08-757-024-105 | Sequence 105, App | 616 | 11 | 55.0 | 41 | 3 | US-08-757-024-17 | Sequence 17, App1 |
| 544 | 11 | 55.0 | 34 | 3 | US-08-757-024-144 | Sequence 144, App | 617 | 11 | 55.0 | 41 | 3 | US-08-757-024-58 | Sequence 58, App1 |
| 545 | 11 | 55.0 | 34 | 3 | US-08-757-024-182 | Sequence 182, App | 618 | 11 | 55.0 | 41 | 3 | US-08-757-024-98 | Sequence 98, App1 |
| 546 | 11 | 55.0 | 34 | 3 | US-08-757-024-219 | Sequence 219, App | 619 | 11 | 55.0 | 41 | 3 | US-08-757-024-137 | Sequence 137, App1 |
| 547 | 11 | 55.0 | 34 | 3 | US-08-757-024-255 | Sequence 255, App | 620 | 11 | 55.0 | 41 | 3 | US-08-757-024-175 | Sequence 175, App |
| 548 | 11 | 55.0 | 34 | 3 | US-08-757-024-290 | Sequence 290, App | 621 | 11 | 55.0 | 41 | 3 | US-08-757-024-212 | Sequence 212, App |
| 549 | 11 | 55.0 | 34 | 3 | US-08-757-024-324 | Sequence 324, App | 622 | 11 | 55.0 | 41 | 3 | US-08-757-024-248 | Sequence 248, App |
| 550 | 11 | 55.0 | 35 | 3 | US-08-757-024-23 | Sequence 23, App1 | 623 | 11 | 55.0 | 41 | 3 | US-08-757-024-283 | Sequence 283, App |
| 551 | 11 | 55.0 | 35 | 3 | US-08-757-024-64 | Sequence 64, App1 | 624 | 11 | 55.0 | 41 | 3 | US-08-757-024-317 | Sequence 317, App |
| 552 | 11 | 55.0 | 35 | 3 | US-08-757-024-104 | Sequence 104, App | C 625 | 11 | 55.0 | 42 | 1 | US-08-453-742-9 | Sequence 9, App11 |
| 553 | 11 | 55.0 | 35 | 3 | US-08-757-024-143 | Sequence 143, App | C 626 | 11 | 55.0 | 42 | 1 | US-08-453-742-10 | Sequence 10, App1 |
| 554 | 11 | 55.0 | 35 | 3 | US-08-757-024-181 | Sequence 181, App | C 627 | 11 | 55.0 | 42 | 1 | US-08-454-464-9 | Sequence 9, App11 |
| 555 | 11 | 55.0 | 35 | 3 | US-08-757-024-218 | Sequence 218, App | 628 | 11 | 55.0 | 42 | 1 | US-08-454-464-10 | Sequence 10, App1 |
| 556 | 11 | 55.0 | 35 | 3 | US-08-757-024-254 | Sequence 254, App | C 629 | 11 | 55.0 | 42 | 1 | US-08-453-222-9 | Sequence 9, App11 |
| 557 | 11 | 55.0 | 35 | 3 | US-08-757-024-289 | Sequence 289, App | C 630 | 11 | 55.0 | 42 | 1 | US-08-453-222-10 | Sequence 10, App1 |
| 558 | 11 | 55.0 | 35 | 3 | US-08-757-024-323 | Sequence 323, App | C 631 | 11 | 55.0 | 42 | 1 | US-08-452-802-9 | Sequence 9, App11 |
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| 560 | 11 | 55.0 | 36 | 2 | US-08-880-557-9 | Sequence 9, App11 | 633 | 11 | 55.0 | 42 | 3 | US-08-757-024-16 | Sequence 16, App1 |
| 561 | 11 | 55.0 | 36 | 2 | US-08-537-811-16 | Sequence 16, App1 | 634 | 11 | 55.0 | 42 | 3 | US-08-757-024-57 | Sequence 57, App1 |
| 562 | 11 | 55.0 | 36 | 3 | US-08-757-024-22 | Sequence 22, App1 | 635 | 11 | 55.0 | 42 | 3 | US-08-757-024-97 | Sequence 97, App1 |
| 563 | 11 | 55.0 | 36 | 3 | US-08-757-024-63 | Sequence 63, App1 | 636 | 11 | 55.0 | 42 | 3 | US-08-757-024-136 | Sequence 136, App |
| 564 | 11 | 55.0 | 36 | 3 | US-08-757-024-103 | Sequence 103, App | 637 | 11 | 55.0 | 42 | 3 | US-08-757-024-174 | Sequence 174, App |
| 565 | 11 | 55.0 | 36 | 3 | US-08-757-024-142 | Sequence 142, App | 638 | 11 | 55.0 | 42 | 3 | US-08-757-024-211 | Sequence 211, App |
| 566 | 11 | 55.0 | 36 | 3 | US-08-757-024-180 | Sequence 180, App | 639 | 11 | 55.0 | 42 | 3 | US-08-757-024-247 | Sequence 247, App |
| 567 | 11 | 55.0 | 36 | 3 | US-08-757-024-217 | Sequence 217, App | 640 | 11 | 55.0 | 42 | 3 | US-08-757-024-282 | Sequence 282, App |
| 568 | 11 | 55.0 | 36 | 3 | US-08-757-024-253 | Sequence 253, App | 641 | 11 | 55.0 | 42 | 3 | US-08-757-024-316 | Sequence 316, App |
| 569 | 11 | 55.0 | 36 | 3 | US-08-757-024-288 | Sequence 288, App | C 642 | 11 | 55.0 | 43 | 1 | US-08-473-096-1 | Sequence 1, App11 |
| 570 | 11 | 55.0 | 36 | 3 | US-08-757-024-322 | Sequence 322, App | C 643 | 11 | 55.0 | 43 | 1 | US-08-473-096-2 | Sequence 2, App11 |
| 571 | 11 | 55.0 | 36 | 3 | US-09-189-583-9 | Sequence 9, App11 | C 644 | 11 | 55.0 | 43 | 1 | US-08-473-096-3 | Sequence 3, App11 |
| 572 | 11 | 55.0 | 37 | 3 | US-08-757-024-21 | Sequence 21, App1 | C 645 | 11 | 55.0 | 43 | 1 | US-08-473-096-4 | Sequence 4, App11 |
| 573 | 11 | 55.0 | 37 | 3 | US-08-757-024-62 | Sequence 62, App1 | C 646 | 11 | 55.0 | 43 | 1 | US-08-473-096-5 | Sequence 5, App11 |
| 574 | 11 | 55.0 | 37 | 3 | US-08-757-024-102 | Sequence 102, App | C 647 | 11 | 55.0 | 43 | 1 | US-08-473-096-11 | Sequence 11, App1 |
| 575 | 11 | 55.0 | 37 | 3 | US-08-757-024-141 | Sequence 141, App | C 648 | 11 | 55.0 | 43 | 1 | US-08-473-096-12 | Sequence 12, App1 |
| 576 | 11 | 55.0 | 37 | 3 | US-08-757-024-179 | Sequence 179, App | 649 | 11 | 55.0 | 43 | 3 | US-08-757-024-15 | Sequence 15, App1 |
| 577 | 11 | 55.0 | 37 | 3 | US-08-757-024-216 | Sequence 216, App | 650 | 11 | 55.0 | 43 | 3 | US-08-757-024-56 | Sequence 56, App1 |
| 578 | 11 | 55.0 | 37 | 3 | US-08-757-024-252 | Sequence 252, App | 651 | 11 | 55.0 | 43 | 3 | US-08-757-024-96 | Sequence 96, App1 |
| 579 | 11 | 55.0 | 37 | 3 | US-08-757-024-287 | Sequence 287, App | 652 | 11 | 55.0 | 43 | 3 | US-08-757-024-135 | Sequence 135, App |
| 580 | 11 | 55.0 | 37 | 3 | US-08-757-024-321 | Sequence 321, App | 653 | 11 | 55.0 | 43 | 3 | US-08-757-024-173 | Sequence 173, App |
| 581 | 11 | 55.0 | 38 | 3 | US-08-757-024-20 | Sequence 20, App1 | 654 | 11 | 55.0 | 43 | 3 | US-08-757-024-210 | Sequence 210, App |
| 582 | 11 | 55.0 | 38 | 3 | US-08-757-024-61 | Sequence 61, App1 | 655 | 11 | 55.0 | 43 | 3 | US-08-757-024-246 | Sequence 246, App |
| 583 | 11 | 55.0 | 38 | 3 | US-08-757-024-101 | Sequence 101, App | 656 | 11 | 55.0 | 43 | 3 | US-08-757-024-281 | Sequence 281, App |
| 584 | 11 | 55.0 | 38 | 3 | US-08-757-024-140 | Sequence 140, App | 657 | 11 | 55.0 | 43 | 3 | US-08-757-024-315 | Sequence 315, App |
| 585 | 11 | 55.0 | 38 | 3 | US-08-757-024-178 | Sequence 178, App | 658 | 11 | 55.0 | 43 | 3 | US-08-757-024-918 | Sequence 918, App |
| 586 | 11 | 55.0 | 38 | 3 | US-08-757-024-215 | Sequence 215, App | 659 | 11 | 55.0 | 44 | 3 | US-08-757-024-54 | Sequence 54, App1 |
| 587 | 11 | 55.0 | 38 | 3 | US-08-757-024-251 | Sequence 251, App | 660 | 11 | 55.0 | 44 | 3 | US-08-757-024-55 | Sequence 55, App1 |
| 588 | 11 | 55.0 | 38 | 3 | US-08-757-024-286 | Sequence 286, App | 661 | 11 | 55.0 | 44 | 3 | US-08-757-024-95 | Sequence 95, App1 |
| 589 | 11 | 55.0 | 38 | 3 | US-08-757-024-320 | Sequence 320, App | 662 | 11 | 55.0 | 44 | 3 | US-08-757-024-134 | Sequence 134, App |
| C 590 | 11 | 55.0 | 38 | 4 | US-09-042-353-326 | Sequence 326, App | 663 | 11 | 55.0 | 44 | 3 | US-08-757-024-172 | Sequence 172, App |
| C 591 | 11 | 55.0 | 38 | 4 | US-08-758-417A-174 | Sequence 174, App | 664 | 11 | 55.0 | 44 | 3 | US-08-757-024-209 | Sequence 209, App |
| C 592 | 11 | 55.0 | 39 | 3 | US-08-757-024-19 | Sequence 19, App1 | 665 | 11 | 55.0 | 44 | 3 | US-08-757-024-245 | Sequence 245, App |
| 593 | 11 | 55.0 | 39 | 3 | US-08-757-024-60 | Sequence 60, App1 | 666 | 11 | 55.0 | 44 | 3 | US-08-757-024-280 | Sequence 280, App |
| 594 | 11 | 55.0 | 39 | 3 | US-08-757-024-100 | Sequence 100, App1 | 667 | 11 | 55.0 | 44 | 3 | US-08-757-024-317 | Sequence 317, App |
| 595 | 11 | 55.0 | 39 | 3 | US-08-757-024-139 | Sequence 139, App | C 668 | 11 | 55.0 | 45 | 1 | US-08-225-324-35 | Sequence 35, App1 |
| 596 | 11 | 55.0 | 39 | 3 | US-08-757-024-177 | Sequence 177, App | C 669 | 11 | 55.0 | 45 | 3 | US-08-722-258-35 | Sequence 35, App1 |
| 597 | 11 | 55.0 | 39 | 3 | US-08-757-024-214 | Sequence 214, App | 670 | 11 | 55.0 | 45 | 3 | US-08-757-024-13 | Sequence 13, App1 |
| 598 | 11 | 55.0 | 39 | 3 | US-08-757-024-250 | Sequence 250, App | 671 | 11 | 55.0 | 45 | 3 | US-08-757-024-54 | Sequence 54, App1 |
| 599 | 11 | 55.0 | 39 | 3 | US-08-757-024-285 | Sequence 285, App | 672 | 11 | 55.0 | 45 | 3 | US-08-757-024-94 | Sequence 94, App1 |
| 600 | 11 | 55.0 | 39 | 3 | US-08-757-024-319 | Sequence 319, App | 673 | 11 | 55.0 | 45 | 3 | US-08-757-024-133 | Sequence 133, App |
| C 601 | 11 | 55.0 | 39 | 4 | US-09-042-353-327 | Sequence 327, App | 674 | 11 | 55.0 | 45 | 3 | US-08-757-024-171 | Sequence 171, App |
| C 602 | 11 | 55.0 | 39 | 4 | US-08-758-417A-175 | Sequence 175, App | 675 | 11 | 55.0 | 45 | 3 | US-08-757-024-208 | Sequence 208, App |
| C 603 | 11 | 55.0 | 40 | 1 | US-08-641-704-8 | Sequence 8, App11 | 676 | 11 | 55.0 | 45 | 3 | US-08-757-024-244 | Sequence 244, App |
| 604 | 11 | 55.0 | 40 | 3 | US-08-757-024-18 | Sequence 18, App1 | 677 | 11 | 55.0 | 45 | 3 | US-08-757-024-916 | Sequence 916, App |
| 605 | 11 | 55.0 | 40 | 3 | US-08-757-024-59 | Sequence 59, App1 | C 678 | 11 | 55.0 | 45 | 5 | PCT-US95-04468-35 | Sequence 35, App1 |
| 606 | 11 | 55.0 | 40 | 3 | US-08-757-024-99 | Sequence 99, App1 | 679 | 11 | 55.0 | 46 | 3 | US-08-757-024-12 | Sequence 12, App1 |
| 607 | 11 | 55.0 | 40 | 3 | US-08-757-024-138 | Sequence 138, App | 680 | 11 | 55.0 | 46 | 3 | US-08-757-024-53 | Sequence 53, App1 |
| 608 | 11 | 55.0 | 40 | 3 | US-08-757-024-176 | Sequence 176, App | 681 | 11 | 55.0 | 46 | 3 | US-08-757-024-93 | Sequence 93, App1 |
| 609 | 11 | 55.0 | 40 | 3 | US-08-757-024-213 | Sequence 213, App | 682 | 11 | 55.0 | 46 | 3 | US-08-757-024-132 | Sequence 132, App |
| 610 | 11 | 55.0 | 40 | 3 | US-08-757-024-249 | Sequence 249, App | 683 | 11 | 55.0 | 46 | 3 | US-08-757-024-170 | Sequence 170, App |
| 611 | 11 | 55.0 | 40 | 3 | US-08-757-024-284 | Sequence 284, App | 684 | 11 | 55.0 | 46 | 3 | US-08-757-024-207 | Sequence 207, App |

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|-----|------|------|-----|---|--------------------|--------------------|-----|------|------|----|---|---------------------|--------------------|
| 685 | 11 | 55.0 | 46 | 3 | US-08-757-024-915 | Sequence 915, App | 758 | 10.8 | 54.0 | 21 | 1 | US-08-048-975-5 | Sequence 5, Appl |
| 686 | 11 | 55.0 | 47 | 3 | US-08-757-024-11 | Sequence 11, Appl | 759 | 10.8 | 54.0 | 21 | 1 | US-08-471-570-16 | Sequence 12, Appl |
| 687 | 11 | 55.0 | 47 | 3 | US-08-757-024-52 | Sequence 52, Appl | 760 | 10.8 | 54.0 | 21 | 1 | US-08-531-556-72 | Sequence 72, Appl |
| 688 | 11 | 55.0 | 47 | 3 | US-08-757-024-92 | Sequence 92, Appl | 761 | 10.8 | 54.0 | 21 | 1 | US-08-472-416-72 | Sequence 72, Appl |
| 689 | 11 | 55.0 | 47 | 3 | US-08-757-024-131 | Sequence 131, App | 762 | 10.8 | 54.0 | 21 | 2 | US-08-753-979A-26 | Sequence 26, Appl |
| 690 | 11 | 55.0 | 47 | 3 | US-08-757-024-169 | Sequence 169, App | 763 | 10.8 | 54.0 | 21 | 3 | US-08-660-645A-31 | Sequence 31, Appl |
| 691 | 11 | 55.0 | 47 | 3 | US-08-757-024-914 | Sequence 914, App | 764 | 10.8 | 54.0 | 21 | 3 | US-09-298-718-31 | Sequence 31, Appl |
| 692 | 11 | 55.0 | 48 | 3 | US-08-757-024-10 | Sequence 10, Appl | 765 | 10.8 | 54.0 | 21 | 3 | US-08-907-598-5 | Sequence 5, Appl |
| 693 | 11 | 55.0 | 48 | 3 | US-08-757-024-51 | Sequence 51, Appl | 766 | 10.8 | 54.0 | 21 | 3 | US-08-907-598-6 | Sequence 6, Appl |
| 694 | 11 | 55.0 | 48 | 3 | US-08-757-024-91 | Sequence 91, Appl | 767 | 10.8 | 54.0 | 21 | 4 | US-09-546-969-31 | Sequence 31, Appl |
| 695 | 11 | 55.0 | 48 | 3 | US-08-757-024-130 | Sequence 130, App | 768 | 10.8 | 54.0 | 21 | 4 | US-08-980-832-10 | Sequence 10, Appl |
| 696 | 11 | 55.0 | 48 | 3 | US-08-757-024-913 | Sequence 913, App | 769 | 10.8 | 54.0 | 22 | 4 | US-08-943-731-80 | Sequence 50, App |
| 697 | 11 | 55.0 | 48 | 4 | US-08-891-271-29 | Sequence 29, Appl | 770 | 10.8 | 54.0 | 22 | 4 | US-09-245-041-41 | Sequence 41, Appl |
| 698 | 11 | 55.0 | 49 | 3 | US-08-757-024-9 | Sequence 9, Appl | 771 | 10.8 | 54.0 | 23 | 1 | US-08-066-325-36 | Sequence 36, Appl |
| 699 | 11 | 55.0 | 49 | 3 | US-08-757-024-50 | Sequence 50, Appl | 772 | 10.8 | 54.0 | 24 | 1 | US-08-411-795B-42 | Sequence 42, Appl |
| 700 | 11 | 55.0 | 49 | 3 | US-08-757-024-90 | Sequence 90, Appl | 773 | 10.8 | 54.0 | 25 | 1 | US-08-469-319A-42 | Sequence 42, Appl |
| 701 | 11 | 55.0 | 49 | 3 | US-08-757-024-912 | Sequence 912, App | 774 | 10.8 | 54.0 | 25 | 1 | US-08-601-419-2 | Sequence 2, Appl |
| 702 | 11 | 55.0 | 50 | 2 | US-08-299-074A-19 | Sequence 19, Appl | 775 | 10.8 | 54.0 | 27 | 3 | US-08-648-709-2 | Sequence 2, Appl |
| 703 | 11 | 55.0 | 50 | 3 | US-08-757-024-8 | Sequence 8, Appl | 776 | 10.8 | 54.0 | 28 | 4 | US-08-465-343A-9 | Sequence 9, Appl |
| 704 | 11 | 55.0 | 50 | 3 | US-08-757-024-49 | Sequence 49, Appl | 777 | 10.8 | 54.0 | 29 | 1 | US-08-176-427B-30 | Sequence 30, Appl |
| 705 | 11 | 55.0 | 50 | 3 | US-08-757-024-911 | Sequence 911, App | 778 | 10.8 | 54.0 | 29 | 2 | US-08-356-060A-30 | Sequence 30, Appl |
| 706 | 11 | 55.0 | 50 | 4 | US-09-399-773-19 | Sequence 19, Appl | 779 | 10.8 | 54.0 | 29 | 4 | US-08-460-900C-30 | Sequence 30, Appl |
| 707 | 11 | 55.0 | 51 | 2 | US-08-883-795A-3 | Sequence 3, Appl | 780 | 10.8 | 54.0 | 30 | 1 | US-08-232-144-2 | Sequence 2, Appl |
| 708 | 11 | 55.0 | 51 | 2 | US-08-883-795A-10 | Sequence 10, Appl | 781 | 10.8 | 54.0 | 30 | 3 | US-08-826-532-7 | Sequence 7, Appl |
| 709 | 11 | 55.0 | 51 | 3 | US-08-757-024-7 | Sequence 7, Appl | 782 | 10.8 | 54.0 | 30 | 3 | US-08-884-324-22 | Sequence 22, Appl |
| 710 | 11 | 55.0 | 51 | 3 | US-08-757-024-910 | Sequence 910, App | 783 | 10.8 | 54.0 | 30 | 4 | US-09-228-324A-7 | Sequence 7, Appl |
| 711 | 11 | 55.0 | 53 | 2 | US-08-184-009-188 | Sequence 188, App | 784 | 10.8 | 54.0 | 33 | 1 | US-08-504-511A-7 | Sequence 7, Appl |
| 712 | 11 | 55.0 | 53 | 2 | US-08-458-356-188 | Sequence 188, App | 785 | 10.8 | 54.0 | 33 | 1 | US-08-438-639-34 | Sequence 34, Appl |
| 713 | 11 | 55.0 | 53 | 4 | US-08-460-736-188 | Sequence 188, App | 786 | 10.8 | 54.0 | 33 | 1 | US-07-813-338A-34 | Sequence 34, Appl |
| 714 | 11 | 55.0 | 55 | 1 | US-08-173-968-7 | Sequence 7, Appl | 787 | 10.8 | 54.0 | 33 | 3 | US-08-441-6971-109 | Sequence 109, App |
| 715 | 11 | 55.0 | 55 | 3 | US-07-801-814D-7 | Sequence 7, Appl | 788 | 10.8 | 54.0 | 33 | 4 | US-08-221-653-109 | Sequence 109, App |
| 716 | 11 | 55.0 | 57 | 4 | US-09-461-697-199 | Sequence 199, App | 789 | 10.8 | 54.0 | 33 | 4 | US-08-442-144A-109 | Sequence 109, App |
| 717 | 11 | 55.0 | 60 | 4 | US-09-037-990B-37 | Sequence 37, Appl | 790 | 10.8 | 54.0 | 33 | 4 | US-08-441-970-109 | Sequence 109, App |
| 718 | 11 | 55.0 | 60 | 4 | US-09-037-990B-39 | Sequence 39, Appl | 791 | 10.8 | 54.0 | 36 | 1 | US-08-291-992A-566 | Sequence 566, App |
| 719 | 11 | 55.0 | 65 | 4 | US-08-833-167-19 | Sequence 19, Appl | 792 | 10.8 | 54.0 | 36 | 1 | US-08-363-240A-383 | Sequence 383, App |
| 720 | 11 | 55.0 | 65 | 4 | US-09-344-837A-19 | Sequence 19, Appl | 793 | 10.8 | 54.0 | 36 | 2 | US-08-297-620A-768 | Sequence 768, App |
| 721 | 11 | 55.0 | 66 | 4 | US-09-461-697-197 | Sequence 197, App | 794 | 10.8 | 54.0 | 36 | 2 | US-08-292-620A-1148 | Sequence 1148, App |
| 722 | 11 | 55.0 | 67 | 3 | US-08-897-527-5 | Sequence 5, Appl | 795 | 10.8 | 54.0 | 36 | 2 | US-08-292-620A-1396 | Sequence 1396, App |
| 723 | 11 | 55.0 | 67 | 3 | US-09-072-508-5 | Sequence 5, Appl | 796 | 10.8 | 54.0 | 36 | 2 | US-08-585-684B-1411 | Sequence 1411, App |
| 724 | 11 | 55.0 | 69 | 3 | US-08-897-527-6 | Sequence 6, Appl | 797 | 10.8 | 54.0 | 36 | 2 | US-08-585-684B-1436 | Sequence 1436, App |
| 725 | 11 | 55.0 | 69 | 3 | US-09-072-508-6 | Sequence 6, Appl | 798 | 10.8 | 54.0 | 36 | 3 | US-09-071-845-768 | Sequence 768, App |
| 726 | 11 | 55.0 | 69 | 4 | US-08-483-511-36 | Sequence 36, Appl | 799 | 10.8 | 54.0 | 36 | 3 | US-09-071-845-1148 | Sequence 1148, App |
| 727 | 11 | 55.0 | 69 | 4 | US-08-483-511-36 | Sequence 36, Appl | 800 | 10.8 | 54.0 | 36 | 4 | US-09-071-845-1396 | Sequence 1396, App |
| 728 | 11 | 55.0 | 69 | 5 | PCT-US93-01009-36 | Sequence 36, Appl | 801 | 10.8 | 54.0 | 36 | 4 | US-09-038-073-1411 | Sequence 1411, App |
| 729 | 11 | 55.0 | 69 | 5 | PCT-US93-01009-37 | Sequence 37, Appl | 802 | 10.8 | 54.0 | 36 | 4 | US-09-038-073-1436 | Sequence 1436, App |
| 730 | 11 | 55.0 | 70 | 1 | US-07-982-712-23 | Sequence 23, Appl | 803 | 10.8 | 54.0 | 37 | 3 | US-08-961-083-241 | Sequence 241, App |
| 731 | 11 | 55.0 | 72 | 4 | US-09-461-697-195 | Sequence 195, App | 804 | 10.8 | 54.0 | 38 | 1 | US-08-176-427B-18 | Sequence 18, Appl |
| 732 | 11 | 55.0 | 81 | 4 | US-08-687-421-379 | Sequence 379, App | 805 | 10.8 | 54.0 | 38 | 2 | US-08-356-060A-18 | Sequence 18, Appl |
| 733 | 11 | 55.0 | 81 | 4 | US-08-687-421-380 | Sequence 380, App | 806 | 10.8 | 54.0 | 38 | 4 | US-08-460-900C-18 | Sequence 18, Appl |
| 734 | 11 | 55.0 | 90 | 5 | PCT-US95-13975-70 | Sequence 70, Appl | 807 | 10.8 | 54.0 | 41 | 4 | US-09-425-638A-4 | Sequence 4, Appl |
| 735 | 11 | 55.0 | 93 | 4 | US-09-507-819-65 | Sequence 65, Appl | 808 | 10.8 | 54.0 | 41 | 4 | US-09-543-004-4 | Sequence 4, Appl |
| 736 | 11 | 55.0 | 96 | 3 | US-08-484-322-17 | Sequence 17, Appl | 809 | 10.8 | 54.0 | 42 | 3 | US-08-879-555-8 | Sequence 8, Appl |
| 737 | 11 | 55.0 | 97 | 1 | US-08-472-255A-35 | Sequence 35, Appl | 810 | 10.8 | 54.0 | 44 | 4 | US-08-983-554A-17 | Sequence 17, Appl |
| 738 | 11 | 55.0 | 97 | 1 | US-08-472-255A-35 | Sequence 35, Appl | 811 | 10.8 | 54.0 | 47 | 1 | US-08-091-569-14 | Sequence 14, Appl |
| 739 | 11 | 55.0 | 97 | 3 | US-08-472-256B-35 | Sequence 35, Appl | 812 | 10.8 | 54.0 | 47 | 1 | US-08-203-676-14 | Sequence 14, Appl |
| 740 | 11 | 55.0 | 97 | 4 | US-08-952-793-35 | Sequence 35, Appl | 813 | 10.8 | 54.0 | 47 | 2 | US-08-822-228-14 | Sequence 14, Appl |
| 741 | 11 | 55.0 | 97 | 5 | PCT-US96-09455A-35 | Sequence 35, Appl | 814 | 10.8 | 54.0 | 49 | 1 | US-08-207-901-58 | Sequence 58, Appl |
| 742 | 11 | 55.0 | 98 | 1 | US-08-210-222-2 | Sequence 2, Appl | 815 | 10.8 | 54.0 | 50 | 1 | US-08-171-389-365 | Sequence 365, App |
| 743 | 11 | 55.0 | 99 | 1 | US-08-247-475-11 | Sequence 11, Appl | 816 | 10.8 | 54.0 | 50 | 1 | US-08-171-389-367 | Sequence 367, App |
| 744 | 11 | 55.0 | 99 | 1 | US-08-479-650-11 | Sequence 11, Appl | 817 | 10.8 | 54.0 | 50 | 1 | US-08-123-936-365 | Sequence 365, App |
| 745 | 11 | 55.0 | 99 | 1 | US-08-191-866D-12 | Sequence 12, Appl | 818 | 10.8 | 54.0 | 50 | 1 | US-08-123-936-367 | Sequence 367, App |
| 746 | 11 | 55.0 | 99 | 1 | US-08-674-169-11 | Sequence 11, Appl | 819 | 10.8 | 54.0 | 50 | 2 | US-08-475-228A-365 | Sequence 365, App |
| 747 | 11 | 55.0 | 99 | 2 | US-08-185-949B-12 | Sequence 12, Appl | 820 | 10.8 | 54.0 | 50 | 2 | US-08-475-228A-367 | Sequence 367, App |
| 748 | 11 | 55.0 | 100 | 4 | US-09-298-886-23 | Sequence 23, Appl | 821 | 10.8 | 54.0 | 50 | 3 | US-08-482-080A-365 | Sequence 365, App |
| 749 | 11 | 55.0 | 100 | 4 | US-09-298-886-26 | Sequence 26, Appl | 822 | 10.8 | 54.0 | 50 | 3 | US-08-482-080A-367 | Sequence 367, App |
| 750 | 10.8 | 54.0 | 17 | 1 | US-08-373-124A-412 | Sequence 412, App | 823 | 10.8 | 54.0 | 50 | 4 | US-09-238-336-5 | Sequence 5, Appl |
| 751 | 10.8 | 54.0 | 17 | 1 | US-08-435-628-412 | Sequence 412, App | 824 | 10.8 | 54.0 | 50 | 5 | PCT-US93-12388-365 | Sequence 365, App |
| 752 | 10.8 | 54.0 | 17 | 1 | US-08-162-081B-19 | Sequence 19, App | 825 | 10.8 | 54.0 | 50 | 5 | PCT-US93-12388-367 | Sequence 367, App |
| 753 | 10.8 | 54.0 | 17 | 2 | US-08-780-872-19 | Sequence 19, App | 826 | 10.8 | 54.0 | 51 | 2 | US-08-477-527A-182 | Sequence 182, App |
| 754 | 10.8 | 54.0 | 17 | 4 | US-09-085-957-19 | Sequence 19, App | 827 | 10.8 | 54.0 | 51 | 3 | US-08-481-710-182 | Sequence 182, App |
| 755 | 10.8 | 54.0 | 17 | 4 | US-08-584-040-7775 | Sequence 7775, App | 828 | 10.8 | 54.0 | 51 | 5 | PCT-US96-09337-182 | Sequence 182, App |
| 756 | 10.8 | 54.0 | 20 | 4 | US-09-467-082-33 | Sequence 33, Appl | 829 | 10.8 | 54.0 | 55 | 1 | US-08-452-592B-4 | Sequence 4, Appl |
| 757 | 10.8 | 54.0 | 20 | 4 | US-09-428-583-23 | Sequence 23, Appl | 830 | 10.8 | 54.0 | 56 | 1 | US-07-869-360B-4 | Sequence 4, Appl |

| | | | | | | | | | | | | | |
|-----|------|------|----|---|--------------------|--------------------|-------|------|------|----|---|--------------------|--------------------|
| 831 | 10.8 | 54.0 | 56 | 4 | US-09-025-769B-84 | Sequence 84, App1 | c 904 | 10.6 | 53.0 | 21 | 4 | US-08-702-525-58 | Sequence 58, App1 |
| 832 | 10.8 | 54.0 | 57 | 3 | US-08-833-167-21 | Sequence 21, App1 | c 905 | 10.6 | 53.0 | 21 | 5 | PCT-US94-09851-77 | Sequence 77, App1 |
| 833 | 10.8 | 54.0 | 57 | 4 | US-09-344-837A-21 | Sequence 21, App1 | c 906 | 10.6 | 53.0 | 21 | 5 | PCT-US95-02576-47 | Sequence 47, App1 |
| 834 | 10.8 | 54.0 | 58 | 3 | US-08-836-561-7 | Sequence 7, App1 | c 907 | 10.6 | 53.0 | 21 | 5 | PCT-US95-02576-58 | Sequence 58, App1 |
| 835 | 10.8 | 54.0 | 59 | 1 | US-08-339-412A-107 | Sequence 107, App | c 908 | 10.6 | 53.0 | 22 | 1 | US-08-287-075-7 | Sequence 7, App1 |
| 836 | 10.8 | 54.0 | 59 | 1 | US-08-339-412A-108 | Sequence 108, App | c 909 | 10.6 | 53.0 | 22 | 3 | US-08-757-024-156 | Sequence 156, App |
| 837 | 10.8 | 54.0 | 61 | 1 | US-08-339-412A-110 | Sequence 110, App | c 910 | 10.6 | 53.0 | 22 | 3 | US-08-757-024-194 | Sequence 194, App |
| 838 | 10.8 | 54.0 | 62 | 1 | US-08-346-293-12 | Sequence 12, App1 | c 911 | 10.6 | 53.0 | 22 | 4 | US-07-974-409C-11 | Sequence 11, App1 |
| 839 | 10.8 | 54.0 | 62 | 1 | US-08-346-293-13 | Sequence 13, App1 | c 912 | 10.6 | 53.0 | 22 | 4 | US-07-974-409C-312 | Sequence 312, App |
| 840 | 10.8 | 54.0 | 62 | 1 | US-08-399-412A-109 | Sequence 109, App | c 913 | 10.6 | 53.0 | 22 | 5 | PCT-US93-00977-11 | Sequence 11, App1 |
| 841 | 10.8 | 54.0 | 63 | 4 | US-09-238-356-4 | Sequence 4, App1 | c 914 | 10.6 | 53.0 | 22 | 5 | PCT-US93-00977-312 | Sequence 312, App |
| 842 | 10.8 | 54.0 | 64 | 1 | US-07-869-380B-3 | Sequence 3, App1 | c 915 | 10.6 | 53.0 | 23 | 1 | US-07-722-798A-80 | Sequence 80, App1 |
| 843 | 10.8 | 54.0 | 64 | 3 | US-08-836-561-8 | Sequence 8, App1 | c 916 | 10.6 | 53.0 | 23 | 1 | US-08-073-836-6 | Sequence 6, App1 |
| 844 | 10.8 | 54.0 | 69 | 1 | US-08-374-641-14 | Sequence 14, App1 | c 917 | 10.6 | 53.0 | 23 | 3 | US-08-757-024-116 | Sequence 116, App |
| 845 | 10.8 | 54.0 | 70 | 3 | US-08-832-985-84 | Sequence 84, App1 | c 918 | 10.6 | 53.0 | 23 | 3 | US-08-757-024-155 | Sequence 155, App |
| 846 | 10.8 | 54.0 | 71 | 1 | US-07-832-905B-25 | Sequence 25, App1 | c 919 | 10.6 | 53.0 | 24 | 2 | US-08-859-998-51 | Sequence 51, App1 |
| 847 | 10.8 | 54.0 | 71 | 1 | US-08-802-824-4 | Sequence 4, App1 | c 920 | 10.6 | 53.0 | 24 | 2 | US-08-757-024-75 | Sequence 75, App1 |
| 848 | 10.8 | 54.0 | 71 | 2 | US-08-700-757-45 | Sequence 25, App1 | c 921 | 10.6 | 53.0 | 24 | 3 | US-08-757-024-115 | Sequence 115, App1 |
| 849 | 10.8 | 54.0 | 71 | 4 | US-09-037-937-4 | Sequence 4, App1 | c 922 | 10.6 | 53.0 | 24 | 3 | US-09-225-928-51 | Sequence 51, App1 |
| 850 | 10.8 | 54.0 | 76 | 3 | US-09-039-959A-9 | Sequence 9, App1 | c 923 | 10.6 | 53.0 | 25 | 3 | US-08-757-024-74 | Sequence 74, App1 |
| 851 | 10.8 | 54.0 | 77 | 1 | US-08-399-412A-53 | Sequence 53, App1 | c 924 | 10.6 | 53.0 | 25 | 3 | US-08-382-155-39 | Sequence 39, App1 |
| 852 | 10.8 | 54.0 | 77 | 1 | US-08-399-412A-54 | Sequence 54, App1 | c 925 | 10.6 | 53.0 | 25 | 4 | US-09-382-135-40 | Sequence 40, App1 |
| 853 | 10.8 | 54.0 | 77 | 1 | US-08-339-412A-55 | Sequence 55, App1 | c 926 | 10.6 | 53.0 | 25 | 4 | US-09-382-135-40 | Sequence 40, App1 |
| 854 | 10.8 | 54.0 | 77 | 3 | US-08-928-881-22 | Sequence 18, App1 | c 927 | 10.6 | 53.0 | 25 | 4 | US-09-382-135-40 | Sequence 40, App1 |
| 855 | 10.8 | 54.0 | 79 | 1 | US-07-832-905B-26 | Sequence 26, App1 | c 928 | 10.6 | 53.0 | 25 | 4 | US-08-943-731-443 | Sequence 443, App |
| 856 | 10.8 | 54.0 | 79 | 2 | US-08-700-757-26 | Sequence 26, App1 | c 929 | 10.6 | 53.0 | 26 | 1 | US-08-010-997-7 | Sequence 7, App1 |
| 857 | 10.8 | 54.0 | 80 | 1 | US-08-208-886C-21 | Sequence 21, App1 | c 930 | 10.6 | 53.0 | 26 | 1 | US-08-612-551-7 | Sequence 7, App1 |
| 858 | 10.8 | 54.0 | 80 | 1 | US-08-704-744-21 | Sequence 21, App1 | c 931 | 10.6 | 53.0 | 26 | 2 | US-09-006-232-7 | Sequence 7, App1 |
| 859 | 10.8 | 54.0 | 80 | 1 | US-08-469-557-21 | Sequence 21, App1 | c 932 | 10.6 | 53.0 | 26 | 2 | US-08-859-998-1004 | Sequence 1004, App |
| 860 | 10.8 | 54.0 | 80 | 1 | US-08-290-793B-21 | Sequence 21, App1 | c 933 | 10.6 | 53.0 | 26 | 3 | US-08-757-024-32 | Sequence 32, App1 |
| 861 | 10.8 | 54.0 | 83 | 1 | US-08-399-412A-112 | Sequence 112, App | c 934 | 10.6 | 53.0 | 26 | 3 | US-09-211-408-7 | Sequence 7, App1 |
| 862 | 10.8 | 54.0 | 84 | 3 | US-08-660-645A-44 | Sequence 44, App1 | c 935 | 10.6 | 53.0 | 26 | 4 | US-09-149-922-11 | Sequence 11, App1 |
| 863 | 10.8 | 54.0 | 84 | 3 | US-09-298-718-44 | Sequence 44, App1 | c 936 | 10.6 | 53.0 | 26 | 4 | US-09-149-922-16 | Sequence 16, App1 |
| 864 | 10.8 | 54.0 | 84 | 4 | US-09-546-969-44 | Sequence 44, App1 | c 937 | 10.6 | 53.0 | 26 | 4 | US-08-225-928-1004 | Sequence 1004, App |
| 865 | 10.8 | 54.0 | 84 | 4 | US-08-960-832-23 | Sequence 23, App1 | c 938 | 10.6 | 53.0 | 27 | 1 | US-08-383-743A-13 | Sequence 13, App1 |
| 866 | 10.8 | 54.0 | 87 | 2 | US-08-477-527A-112 | Sequence 112, App | c 939 | 10.6 | 53.0 | 27 | 1 | US-08-426-792-14 | Sequence 14, App1 |
| 867 | 10.8 | 54.0 | 87 | 2 | US-08-481-710-112 | Sequence 112, App | c 940 | 10.6 | 53.0 | 27 | 1 | US-08-808-881-13 | Sequence 13, App1 |
| 868 | 10.8 | 54.0 | 87 | 3 | US-08-481-710-113 | Sequence 113, App | c 941 | 10.6 | 53.0 | 27 | 3 | US-08-808-881-16 | Sequence 16, App1 |
| 869 | 10.8 | 54.0 | 87 | 3 | US-08-481-710-113 | Sequence 113, App | c 942 | 10.6 | 53.0 | 27 | 3 | US-09-150-133-38 | Sequence 38, App1 |
| 870 | 10.8 | 54.0 | 87 | 5 | PCT-US96-09537-112 | Sequence 112, App | c 943 | 10.6 | 53.0 | 27 | 3 | US-09-017-631-13 | Sequence 13, App1 |
| 871 | 10.8 | 54.0 | 87 | 5 | PCT-US96-09537-113 | Sequence 113, App | c 944 | 10.6 | 53.0 | 27 | 3 | US-09-017-631-16 | Sequence 16, App1 |
| 872 | 10.8 | 54.0 | 88 | 3 | US-08-660-645A-45 | Sequence 45, App1 | c 945 | 10.6 | 53.0 | 27 | 3 | US-09-374-631-16 | Sequence 16, App1 |
| 873 | 10.8 | 54.0 | 88 | 3 | US-09-298-718-45 | Sequence 45, App1 | c 946 | 10.6 | 53.0 | 27 | 4 | US-09-374-631-16 | Sequence 16, App1 |
| 874 | 10.8 | 54.0 | 88 | 4 | US-09-546-969-45 | Sequence 45, App1 | c 947 | 10.6 | 53.0 | 27 | 4 | US-09-374-631-16 | Sequence 16, App1 |
| 875 | 10.8 | 54.0 | 88 | 4 | US-08-980-832-24 | Sequence 24, App1 | c 948 | 10.6 | 53.0 | 27 | 4 | US-09-374-631-16 | Sequence 16, App1 |
| 876 | 10.8 | 54.0 | 88 | 4 | US-08-411-796-141 | Sequence 141, App | c 949 | 10.6 | 53.0 | 27 | 4 | US-09-374-631-16 | Sequence 16, App1 |
| 877 | 10.8 | 54.0 | 89 | 1 | US-08-411-796-141 | Sequence 141, App | c 950 | 10.6 | 53.0 | 27 | 5 | PCT-US93-07116-13 | Sequence 13, App1 |
| 878 | 10.8 | 54.0 | 89 | 3 | PCT-US93-11198-141 | Sequence 141, App | c 951 | 10.6 | 53.0 | 27 | 5 | PCT-US93-07116-16 | Sequence 16, App1 |
| 879 | 10.8 | 54.0 | 89 | 3 | US-08-757-024-341 | Sequence 341, App | c 952 | 10.6 | 53.0 | 29 | 1 | US-08-836-983-4 | Sequence 4, App1 |
| 880 | 10.6 | 53.0 | 17 | 4 | US-08-584-040-3798 | Sequence 3798, App | c 953 | 10.6 | 53.0 | 29 | 3 | US-08-840-062-13 | Sequence 13, App1 |
| 881 | 10.6 | 53.0 | 18 | 3 | US-08-757-024-306 | Sequence 306, App | c 954 | 10.6 | 53.0 | 29 | 3 | US-09-248-571-7 | Sequence 7, App1 |
| 882 | 10.6 | 53.0 | 18 | 3 | US-08-757-024-340 | Sequence 340, App | c 955 | 10.6 | 53.0 | 29 | 3 | US-09-248-571-18 | Sequence 18, App1 |
| 883 | 10.6 | 53.0 | 18 | 5 | PCT-US94-06331A-53 | Sequence 53, App1 | c 956 | 10.6 | 53.0 | 29 | 4 | US-09-363-189B-15 | Sequence 15, App1 |
| 884 | 10.6 | 53.0 | 19 | 3 | US-08-757-024-270 | Sequence 270, App | c 957 | 10.6 | 53.0 | 30 | 1 | US-08-451-240-15 | Sequence 15, App1 |
| 885 | 10.6 | 53.0 | 19 | 3 | US-08-757-024-305 | Sequence 305, App | c 958 | 10.6 | 53.0 | 30 | 2 | US-08-470-846A-41 | Sequence 41, App1 |
| 886 | 10.6 | 53.0 | 20 | 2 | US-08-875-445-18 | Sequence 18, App1 | c 959 | 10.6 | 53.0 | 30 | 2 | US-08-859-998-337 | Sequence 337, App |
| 887 | 10.6 | 53.0 | 20 | 2 | US-08-875-445-18 | Sequence 18, App1 | c 960 | 10.6 | 53.0 | 30 | 3 | US-07-959-509-2 | Sequence 2, App1 |
| 888 | 10.6 | 53.0 | 20 | 3 | US-08-863-118-8 | Sequence 8, App1 | c 961 | 10.6 | 53.0 | 30 | 4 | US-08-348-548-95 | Sequence 95, App1 |
| 889 | 10.6 | 53.0 | 20 | 3 | US-08-757-024-233 | Sequence 233, App | c 962 | 10.6 | 53.0 | 30 | 4 | US-09-225-928-337 | Sequence 337, App |
| 890 | 10.6 | 53.0 | 20 | 3 | US-08-757-024-269 | Sequence 269, App | c 963 | 10.6 | 53.0 | 30 | 5 | PCT-US94-12591-45 | Sequence 45, App1 |
| 891 | 10.6 | 53.0 | 20 | 3 | US-09-428-696-44 | Sequence 44, App1 | c 964 | 10.6 | 53.0 | 30 | 5 | PCT-US95-15716-95 | Sequence 95, App1 |
| 892 | 10.6 | 53.0 | 20 | 4 | US-09-487-368A-97 | Sequence 97, App1 | c 965 | 10.6 | 53.0 | 31 | 4 | US-08-818-112-149 | Sequence 149, App |
| 893 | 10.6 | 53.0 | 20 | 4 | US-09-487-368A-97 | Sequence 97, App1 | c 966 | 10.6 | 53.0 | 31 | 4 | US-08-818-112-149 | Sequence 149, App |
| 894 | 10.6 | 53.0 | 20 | 4 | US-09-428-583-65 | Sequence 65, App1 | c 967 | 10.6 | 53.0 | 31 | 4 | US-09-036-556-149 | Sequence 149, App |
| 895 | 10.6 | 53.0 | 20 | 4 | US-09-716-161A-44 | Sequence 44, App1 | c 968 | 10.6 | 53.0 | 31 | 4 | US-09-036-556-208 | Sequence 208, App |
| 896 | 10.6 | 53.0 | 21 | 2 | US-08-742-297-3 | Sequence 3, App1 | c 969 | 10.6 | 53.0 | 32 | 1 | US-07-841-652-34 | Sequence 34, App1 |
| 897 | 10.6 | 53.0 | 21 | 3 | US-08-757-024-195 | Sequence 195, App | c 970 | 10.6 | 53.0 | 32 | 1 | US-08-209-797-44 | Sequence 44, App1 |
| 898 | 10.6 | 53.0 | 21 | 3 | US-08-757-024-232 | Sequence 232, App | c 971 | 10.6 | 53.0 | 32 | 1 | US-08-669-685-17 | Sequence 17, App1 |
| 899 | 10.6 | 53.0 | 21 | 3 | US-08-329-799-61 | Sequence 61, App1 | c 972 | 10.6 | 53.0 | 32 | 2 | US-08-560-007B-1 | Sequence 1, App1 |
| 900 | 10.6 | 53.0 | 21 | 3 | US-08-338-579A-77 | Sequence 77, App1 | c 973 | 10.6 | 53.0 | 32 | 2 | US-09-103-486-34 | Sequence 34, App1 |
| 901 | 10.6 | 53.0 | 21 | 4 | US-08-205-697A-47 | Sequence 47, App1 | c 974 | 10.6 | 53.0 | 32 | 3 | US-08-833-553-11 | Sequence 11, App1 |
| 902 | 10.6 | 53.0 | 21 | 4 | US-08-205-697A-58 | Sequence 58, App1 | c 975 | 10.6 | 53.0 | 32 | 4 | US-09-284-033-10 | Sequence 10, App1 |
| 903 | 10.6 | 53.0 | 21 | 4 | US-08-702-525-47 | Sequence 47, App1 | c 976 | 10.6 | 53.0 | 32 | 4 | US-09-039-982A-43 | Sequence 43, App1 |

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C 977 10.6 53.0 32 4 US-09-418-222-11 Sequence 11, Appl
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C 980 10.6 53.0 32 5 PCR-US93-01557-34 Sequence 34, Appl
C 981 10.6 53.0 33 1 US-08-294-386C-6 Sequence 6, Appl
C 982 10.6 53.0 33 1 US-08-299-249A-5 Sequence 5, Appl
C 983 10.6 53.0 33 1 US-08-487-046-1 Sequence 1, Appl
C 984 10.6 53.0 33 1 US-08-483-522-1 Sequence 1, Appl
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C 992 10.6 53.0 33 5 PCR-US95-10224-6 Sequence 6, Appl
C 993 10.6 53.0 36 1 US-08-530-492-21 Sequence 21, Appl
C 994 10.6 53.0 36 1 US-08-361-337-74 Sequence 74, Appl
C 995 10.6 53.0 36 1 US-08-265-628-9 Sequence 9, Appl
C 996 10.6 53.0 36 4 US-08-906-517-21 Sequence 21, Appl
C 997 10.6 53.0 37 4 US-08-889-841B-47 Sequence 47, Appl
C 998 10.6 53.0 37 4 US-09-007-678B-61 Sequence 61, Appl
C 999 10.6 53.0 38 1 US-08-390-850-723 Sequence 723, App
1000 10.6 53.0 38 1 US-08-390-850-744 Sequence 744, App
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ALIGNMENTS

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RESULT 1
US-08-338-579A-79/c
; Sequence 79, Application US/08338579A
; Patent No. 6068975
; GENERAL INFORMATION:
; APPLICANT: Gilliam, T. Conrad
; TITLE OF INVENTION: ISOLATION AND USES OF A WILSON'S
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/338,579A
; FILING DATE: June 17, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28, 678
; REFERENCE/DOCKET NUMBER: 0575/44011-A-PCT-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; TELEX:
; INFORMATION FOR SEQ ID NO: 79:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-338-579A-79
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Query Match 74.0%; Score 14.8; DB 3; Length 22;
Best Local Similarity 88.9%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Qy 2 gaagccagagctggagag 19
Db 18 GAAGCCTGACCTGAGAG 1

RESULT 2
PCT-US94-09851-79/c
; Sequence 79, Application PC/TUS9409851
; GENERAL INFORMATION:
; APPLICANT: Gilliam, T. Conrad
; TITLE OF INVENTION: ISOLATION AND USES OF A WILSON'S
; NUMBER OF SEQUENCES: 92
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/09851
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28, 678
; REFERENCE/DOCKET NUMBER: 0575/44011-PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 977-9550
; TELEFAX: (212) 664-0525
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 79:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
PCT-US94-09851-79
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Query Match 74.0%; Score 14.8; DB 5; Length 22;
Best Local Similarity 88.9%; Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
Qy 2 gaagccagagctggagag 19
Db 18 GAAGCCTGACCTGAGAG 1
```

```
RESULT 3
US-09-023-082A-49
; Sequence 49, Application US/09023082A
; Patent No. 6077692
; GENERAL INFORMATION:
; APPLICANT: RUBEN, STEVEN M.
; APPLICANT: JIMENEZ, PABLO
; APPLICANT: DUAN, D. ROXANNE
```

APPLICANT: RAMPY, MARK A.
APPLICANT: MENDRICK, DONNA
APPLICANT: ZHANG, JUN
APPLICANT: NI, JIAN
APPLICANT: MOORE, PAUL A.
APPLICANT: COLEMAN, TIMOTHY A.
APPLICANT: GRUBER, JOACHIM R.
APPLICANT: DILLON, PATRICK J.
APPLICANT: GENTZ, REINER L.
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVE, NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,082A
CLASSIFICATION: 435
FILING DATE: 13-FEB-1998
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/01790
FILING DATE: 14-FEB-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/461,195
FILING DATE: 05-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/023,852
FILING DATE: 13-AUG-1996
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/039,045
FILING DATE: 28-FEB-1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/862,432
FILING DATE: 23-MAY-1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/910,875
FILING DATE: 13-AUG-1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/055,561
FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488,0360008/EKS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-09-023-082A-49

Query Match 72.0%; Score 14.4; DB 3; Length 48;
Best Local Similarity 93.8%; Pred. No. 2.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 gaagccagagctgag 17
DB 12 GAAGCTAGAGCTGAG 27

RESULT 4
US-09-387-699-17/c
Sequence 17, Application US/09387699
Patent No. 6221660
GENERAL INFORMATION:
APPLICANT: Bonini, James A.
APPLICANT: Borowsky, Beth E.
APPLICANT: Adam, Nika
APPLICANT: Boyle, No. 62216601
TITLE OF INVENTION: DNA Encoding SNORF25 Receptor
FILE REFERENCE: 56095-A
CURRENT APPLICATION NUMBER: US/09/387,699
CURRENT FILING DATE: 1999-08-13
EARLIER APPLICATION NUMBER: 09/255,376
EARLIER FILING DATE: 1999-02-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.0 - beta
SEQ ID NO 17
LENGTH: 61
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: primer/probe
US-09-387-699-17

Query Match 71.0%; Score 14.2; DB 4; Length 61;
Best Local Similarity 84.2%; Pred. No. 3.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 gaagccagagctgag 20
DB 48 GAAGCCAGCAGCAGAGG 30

RESULT 5
US-08-309-560-22/c
Sequence 22, Application US/08309560
Patent No. 5569586
GENERAL INFORMATION:
APPLICANT: Pelletier, Dale A.
APPLICANT: Weisburg, William G.
TITLE OF INVENTION: Nucleic Acid Probes for the Detection of
TITLE OF INVENTION: Bacteria of the Genus Legionella and Methods for the
TITLE OF INVENTION: Detection of the Etiological Agents of Legionnaires'
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amoco Corporation
STREET: 55 Shuman Blvd., Suite 600
CITY: Naperville
STATE: IL
COUNTRY: USA
ZIP: 60563
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/309,560
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/08/066,373
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Glesser, Joanne M.
REGISTRATION NUMBER: 32,838
REFERENCE/DOCKET NUMBER: 31,495
TELECOMMUNICATION INFORMATION:
TELEPHONE: (708) 717-2443

TELEFAX: (708) 717-2430
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-309-560-22

Query Match 70.0%; Score 14; DB 1; Length 32;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 cagagctgagagg 20
|||||
DB 14 CAGAGCTGAGAGG 1

RESULT 6

PCT-US94-05821A-22/C
; Sequence 22, Application PC/TUS9405821A
; GENERAL INFORMATION:
; APPLICANT: AMOCO CORPORATION
; TITLE OF INVENTION: Nucleic Acid Probes for the Detection of
; TITLE OF INVENTION: Bacteria of the Genus Legionella and Methods for the
; TITLE OF INVENTION: Detection of the Etiological Agents of Legionnaires'
; TITLE OF INVENTION: Disease
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amoco Corporation
; STREET: 55 Shuman Blvd., Suite 600
; CITY: Naperville
; STATE: IL
; COUNTRY: USA
; ZIP: 60563
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05821A
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; CLASSIFICATION:
; NAME: Notval B. Galloway
; REGISTRATION NUMBER: 33,595
; REFERENCE/DOCKET NUMBER: 31,495
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (708) 717-2447
; TELEFAX: (708) 717-2430
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
PCT-US94-05821A-22

Query Match 70.0%; Score 14; DB 5; Length 32;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 cagagctgagagg 20
|||||
DB 14 CAGAGCTGAGAGG 1

RESULT 7
US-08-292-620A-2144
; Sequence 2144, Application US/08292620A
; Patent No. 5837542
; GENERAL INFORMATION:
; APPLICANT: Susan Grimm
; APPLICANT: Dan T. Stinchcomb
; APPLICANT: James McSwigen
; APPLICANT: Sean Sullivan
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: RIBOZYME TREATMENT OF
; TITLE OF INVENTION: DISEASES OR CONDITIONS
; TITLE OF INVENTION: RELATED TO LEVELS OF
; TITLE OF INVENTION: INTRACELLULAR ADHESION
; NUMBER OF SEQUENCES: 2390
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/292,620A
; FILING DATE: August 17, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER: 08/008,895
; FILING DATE: January 19, 1993
; APPLICATION NUMBER: 07/989,849
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 208/149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2144:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 38 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-292-620A-2144

Query Match 69.0%; Score 13.8; DB 2; Length 38;
Best Local Similarity 82.4%; Pred. No. 5.4e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 4 acccagagctgagagg 20
|||||
DB 1 ACCCAGAGCTGAGAGG 17

RESULT 8
US-09-071-845-2144
; Sequence 2144, Application US/09071845
; Patent No. 6132967
; GENERAL INFORMATION:

APPLICANT: Susan Grimm
APPLICANT: Dan T. Stinchcomb
APPLICANT: James McSwiggen
APPLICANT: Sean Sullivan
APPLICANT: Kenneth G. Draper
TITLE OF INVENTION: RIBOZYME TREATMENT OF
TITLE OF INVENTION: DISEASES OR CONDITIONS
TITLE OF INVENTION: RELATED TO LEVELS OF
TITLE OF INVENTION: INTRACELLULAR ADHESION
TITLE OF INVENTION: MOLECULE-1 (I-CAM-1)
NUMBER OF SEQUENCES: 2390
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,845
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/292,620
FILING DATE: August 17, 1994
APPLICATION NUMBER: 08/008,895
FILING DATE: January 19, 1993
APPLICATION NUMBER: 07/989,849
FILING DATE: December 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Marbury, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 208/149
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
SEQUENCE CHARACTERISTICS:
SEQUENCE FOR SEQ ID NO: 2144:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-845-2144

Query Match 69.0%; Score 13.8; DB 3; Length 38;
Best Local Similarity 82.4%; Pred. No. 5.4e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctggagagg 20
|||||
Db 1 AGCCAGAGCUGAGG 17

RESULT 9
US-07-832-905B-47
Sequence 47, Application US/07832905B
Patent No. 5580722
GENERAL INFORMATION:
APPLICANT: J. Gordon Foulkes, et al.
TITLE OF INVENTION: Methods of Transcriptionally
Modulating Expression of Genes Associated with Cardiovascular
Disease.
TITLE OF INVENTION: Disease.
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:

ADDRESSEE: John P. White, Esq.
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/832,905B
FILING DATE: 19920207
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 26134-H
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-664-0525
TELEFAX: 212-664-0525
FILING DATE: 422523 coop ul
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-07-832-905B-47

Query Match 69.0%; Score 13.8; DB 1; Length 44;
Best Local Similarity 88.2%; Pred. No. 5.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctggagagg 20
|||||
Db 26 AGCCGAGCGGAGAGG 42

RESULT 10
US-08-700-757-47
Sequence 47, Application US/08700757
Patent No. 5846720
GENERAL INFORMATION:
APPLICANT: J. Gordon Foulkes, et al.
TITLE OF INVENTION: METHODS OF DETERMINING CHEMICALS THAT MODULATE
EXPRESSION OF GENES ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISEASE
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: John P. White, Esq.
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,757
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 26134-HA
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-700-757-47

Query Match 69.0%; Score 13.8; DB 2; Length 44;
Best Local Similarity 88.2%; Pred. No. 5.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 4 gccagagctgagag 20
|||||
26 AGCCGAGCGGAGAG 42

RESULT 11

US-08-146-422-27/c
Sequence 27, Application US/08146422
Patent No. 5543576

GENERAL INFORMATION:
APPLICANT: VAN OIJTEN, ALBERT J. J.
APPLICANT: RIETVELD, KRIJN
APPLICANT: HOEKEMA, ANDREAS
APPLICANT: PEN, JAN
APPLICANT: SIMONS, PETER C.
APPLICANT: VERWOERD, TEUNIS C.
TITLE OF INVENTION: PRODUCTION OF ENZYMES IN SEEDS AND THEIR
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/146.422
FILING DATE: 02-NOV-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KENNEDY, BILL
REGISTRATION NUMBER: 33,407
REFERENCE/DOCKET NUMBER: 44615-20011.23
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-146-422-27

Query Match 67.0%; Score 13.4; DB 1; Length 56;
Best Local Similarity 93.3%; Pred. No. 8.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 5 gccagagctgagag 19
|||||
Db 20 GCCAGAGCTGTAGAG 6

RESULT 12

US-08-146-422-28
Sequence 28, Application US/08146422
Patent No. 5543576

GENERAL INFORMATION:
APPLICANT: VAN OIJTEN, ALBERT J. J.
APPLICANT: RIETVELD, KRIJN
APPLICANT: HOEKEMA, ANDREAS
APPLICANT: PEN, JAN
APPLICANT: SIMONS, PETER C.
APPLICANT: VERWOERD, TEUNIS C.
TITLE OF INVENTION: PRODUCTION OF ENZYMES IN SEEDS AND THEIR
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/146.422
FILING DATE: 02-NOV-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KENNEDY, BILL
REGISTRATION NUMBER: 33,407
REFERENCE/DOCKET NUMBER: 44615-20011.23
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-146-422-28

Query Match 67.0%; Score 13.4; DB 1; Length 56;
Best Local Similarity 93.3%; Pred. No. 8.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 5 gccagagctgagag 19
|||||
Db 41 GCCAGAGCTGTAGAG 55

RESULT 13

US-08-146-424-28/c
Sequence 28, Application US/08146424
Patent No. 5593963

GENERAL INFORMATION:
APPLICANT: VAN OIJTEN, ALBERT J. J.
APPLICANT: RIETVELD, KRIJN
APPLICANT: HOEKEMA, ANDREAS
APPLICANT: PEN, JAN
APPLICANT: SIMONS, PETER C.

APPLICANT: VERWOERD, TEUNIS C.
TITLE OF INVENTION: THE EXPRESSION OF PHYTASE IN PLANTS
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/146,424
FILING DATE: 02-NOV-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KENNEDY, BILL
REGISTRATION NUMBER: 33,407
REFERENCE/DOCKET NUMBER: 44615-20011.24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-146-424-28

Query Match 67.0%; Score 13.4; DB 1; Length 56;
Best Local Similarity 93.3%; Pred. No. 8.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 gccagagctgagag 19
|||||
Db 20 GCCAGAGCTGTAGAG 6

RESULT 14
US-08-146-424-29
Sequence 29, Application US/08146424
Patent No. 5593963
GENERAL INFORMATION:
APPLICANT: VAN COIJEN, ALBERT J. J.
APPLICANT: RIETVELD, KRITJN
APPLICANT: HOEKEMA, ANDREAS
APPLICANT: PEN, JAN
APPLICANT: SIMONS, PETER C.
APPLICANT: VERWOERD, TEUNIS C.
TITLE OF INVENTION: THE EXPRESSION OF PHYTASE IN PLANTS
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/146,424
FILING DATE: 02-NOV-1993

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KENNEDY, BILL
REGISTRATION NUMBER: 33,407
REFERENCE/DOCKET NUMBER: 44615-20011.24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-146-424-29

Query Match 67.0%; Score 13.4; DB 1; Length 56;
Best Local Similarity 93.3%; Pred. No. 8.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 gccagagctgagag 19
|||||
Db 41 GCCAGAGCTGTAGAG 55

RESULT 15
US-08-626-554-9/C
Sequence 9, Application US/08626554
Patent No. 5714474
GENERAL INFORMATION:
APPLICANT: VAN COIJEN, ALBERT J. J.
APPLICANT: RIETVELD, KRITJN
APPLICANT: HOEKEMA, ANDREAS
APPLICANT: PEN, JAN
APPLICANT: SIMONS, PETER C.
APPLICANT: VERWOERD, TEUNIS C.
APPLICANT: QUAX, WILHEMUS J.
TITLE OF INVENTION: PRODUCTION OF ENZYMES IN SEEDS AND THEIR
TITLE OF INVENTION: USE
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE NW
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/626,554
FILING DATE: 02-APR-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 26192-20011.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030 MRSNFOERSWSH
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 56 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:

NAME/KEY: CDS
LOCATION: 1.33
US-08-626-554-9

Query Match 67.0%; Score 13.4; DB 1; Length 56;
Best Local Similarity 93.3%; Pred. No. 8.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 5 gccagagctgagag 19
|||||
Db 20 GCCAGAGCTGTAGAG 6

Search completed: July 19, 2002, 02:44:35
Job time: 5116 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 19, 2002, 02:11:08 ; Search time 2468.64 Seconds
(Without alignments) 109.347 Million cell updates/sec

Title: US-09-817-538-18
Perfect score: 20
Sequence: 1 ggaagcagagctgagagag 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 674847542 residues

Total number of hits satisfying chosen parameters: 297742

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_estl:*
9: gb_estl:*
10: gb_est2:*
11: gb_hic:*
12: gb_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
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| 1 | 15.4 | 77.0 | 62 | 12 | AZ993329 2M0278114 |
| 2 | 14.8 | 74.0 | 62 | 12 | AZ826329 2M0102B01 |
| 3 | 14.8 | 74.0 | 90 | 10 | D20583 |
| 4 | 14.4 | 72.0 | 87 | 10 | B1649165 |
| 5 | 14.4 | 72.0 | 88 | 9 | AW246896 |
| 6 | 14.4 | 72.0 | 94 | 12 | AZ779710 |
| 7 | 14.4 | 72.0 | 98 | 10 | BG965389 |
| 8 | 14.2 | 71.0 | 50 | 9 | AU102223 |
| 9 | 14.2 | 71.0 | 72 | 9 | AA277516 |
| 10 | 14.2 | 71.0 | 89 | 12 | AZ779030 |
| 11 | 14.2 | 71.0 | 92 | 9 | A1554088 |
| 12 | 13.8 | 69.0 | 34 | 9 | AA912855 |
| 13 | 13.8 | 69.0 | 61 | 12 | AZ425152 |
| 14 | 13.8 | 69.0 | 80 | 10 | BE291630 |
| 15 | 13.8 | 69.0 | 83 | 9 | AA500452 |
| 16 | 13.8 | 69.0 | 85 | 10 | W61833 |
| 17 | 13.8 | 69.0 | 86 | 9 | AA432876 |

| | | | | | |
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| C 18 | 13.8 | 69.0 | 94 | 10 | BG871587 |
| C 19 | 13.8 | 69.0 | 99 | 9 | AA636946 |
| C 20 | 13.8 | 69.0 | 100 | 9 | AA792692 |
| C 21 | 13.6 | 68.0 | 72 | 9 | AA791952 |
| C 22 | 13.6 | 68.0 | 81 | 10 | B1547576 |
| C 23 | 13.6 | 68.0 | 94 | 9 | A1587444 |
| C 24 | 13.6 | 68.0 | 94 | 10 | BF939390 |
| C 25 | 13.6 | 68.0 | 96 | 12 | BH218922 |
| C 26 | 13.6 | 68.0 | 99 | 9 | AA966952 |
| C 27 | 13.4 | 67.0 | 21 | 12 | AZ623540 |
| C 28 | 13.4 | 67.0 | 50 | 9 | AU103163 |
| C 29 | 13.4 | 67.0 | 50 | 9 | AU103164 |
| C 30 | 13.4 | 67.0 | 50 | 9 | AU103168 |
| C 31 | 13.4 | 67.0 | 50 | 9 | AU103176 |
| C 32 | 13.4 | 67.0 | 66 | 12 | AZ638944 |
| C 33 | 13.4 | 67.0 | 70 | 12 | AZ877667 |
| C 34 | 13.4 | 67.0 | 79 | 12 | AZ833213 |
| C 35 | 13.4 | 67.0 | 82 | 9 | AA878196 |
| C 36 | 13.4 | 67.0 | 83 | 10 | BE885132 |
| C 37 | 13.4 | 67.0 | 100 | 10 | BF174810 |
| C 38 | 13.2 | 66.0 | 37 | 9 | AA528327 |
| C 39 | 13.2 | 66.0 | 50 | 9 | AU107435 |
| C 40 | 13.2 | 66.0 | 50 | 9 | AU107436 |
| C 41 | 13.2 | 66.0 | 50 | 9 | AU107437 |
| C 42 | 13.2 | 66.0 | 56 | 12 | AZ820546 |
| C 43 | 13.2 | 66.0 | 59 | 12 | AZ822163 |
| C 44 | 13.2 | 66.0 | 72 | 9 | AA791952 |
| C 45 | 13.2 | 66.0 | 77 | 9 | AA052013 |
| C 46 | 13.2 | 66.0 | 79 | 12 | AZ586096 |
| C 47 | 13.2 | 66.0 | 79 | 12 | BH227861 |
| C 48 | 13.2 | 66.0 | 88 | 9 | AA193867 |
| C 49 | 13.2 | 66.0 | 88 | 10 | BE379615 |
| C 50 | 13.2 | 66.0 | 89 | 10 | T81205 |
| C 51 | 13.2 | 66.0 | 100 | 10 | BM279725 |
| C 52 | 13 | 65.0 | 96 | 9 | AV858060 |
| C 53 | 12.8 | 64.0 | 43 | 10 | BJ001433 |
| C 54 | 12.8 | 64.0 | 43 | 12 | AZ795373 |
| C 55 | 12.8 | 64.0 | 49 | 9 | AA588107 |
| C 56 | 12.8 | 64.0 | 50 | 9 | AU103921 |
| C 57 | 12.8 | 64.0 | 50 | 9 | AU103922 |
| C 58 | 12.8 | 64.0 | 64 | 9 | A1640179 |
| C 59 | 12.8 | 64.0 | 64 | 9 | AW270911 |
| C 60 | 12.8 | 64.0 | 67 | 9 | A1739301 |
| C 61 | 12.8 | 64.0 | 73 | 9 | A1739189 |
| C 62 | 12.8 | 64.0 | 74 | 12 | AZ783842 |
| C 63 | 12.8 | 64.0 | 80 | 9 | AW323727 |
| C 64 | 12.8 | 64.0 | 82 | 9 | A1745436 |
| C 65 | 12.8 | 64.0 | 85 | 9 | AA615162 |
| C 66 | 12.8 | 64.0 | 90 | 9 | AU167417 |
| C 67 | 12.8 | 64.0 | 90 | 12 | AZ775237 |
| C 68 | 12.8 | 64.0 | 93 | 9 | A1282700 |
| C 69 | 12.8 | 64.0 | 93 | 9 | AW059704 |
| C 70 | 12.8 | 64.0 | 94 | 9 | AA657704 |
| C 71 | 12.8 | 64.0 | 94 | 9 | A1291130 |
| C 72 | 12.8 | 64.0 | 94 | 10 | BF007984 |
| C 73 | 12.8 | 64.0 | 95 | 9 | A1803629 |
| C 81 | 12.6 | 63.0 | 54 | 10 | BF539841 |
| C 82 | 12.6 | 63.0 | 55 | 9 | AA271050 |
| C 83 | 12.6 | 63.0 | 57 | 10 | B1154155 |
| C 84 | 12.6 | 63.0 | 60 | 10 | BI082549 |
| C 85 | 12.6 | 63.0 | 62 | 10 | BG921227 |
| C 86 | 12.6 | 63.0 | 63 | 10 | B1157195 |
| C 87 | 12.6 | 63.0 | 67 | 9 | A1790457 |
| C 88 | 12.6 | 63.0 | 70 | 9 | A1093621 |
| C 89 | 12.6 | 63.0 | 70 | 10 | B1103550 |
| C 90 | 12.6 | 63.0 | 70 | 10 | B1690013 |

| | | | | | | | | | | | | | | | |
|-------|------|------|-----|----|-----------|-----------|--------------|-------|------|------|-----|----|-----------|-----------|---------------------|
| C 91 | 12.6 | 63.0 | 72 | 9 | AI679367 | AI679367 | tu73h05.x | 164 | 12.2 | 61.0 | 69 | 12 | BH224120 | BH224120 | 1006116H0 |
| C 92 | 12.6 | 63.0 | 78 | 9 | AA119888 | AA119888 | mp87e02.r | 165 | 12.2 | 61.0 | 73 | 9 | AI304122 | AI304122 | u158h12.y |
| C 93 | 12.6 | 63.0 | 81 | 12 | AZ771276 | AZ771276 | 1M0573N16 | 166 | 12.2 | 61.0 | 73 | 9 | A0077272 | A0077272 | A0077272 |
| C 94 | 12.6 | 63.0 | 82 | 10 | B1108042 | B1108042 | 602902429 | C 167 | 12.2 | 61.0 | 76 | 9 | AI764784 | AI764784 | Day3-10 M |
| C 95 | 12.6 | 63.0 | 83 | 10 | C20929 | C20929 | HUMGS000219 | C 168 | 12.2 | 61.0 | 76 | 12 | AZ310052 | AZ310052 | 1M001800M |
| C 96 | 12.6 | 63.0 | 84 | 12 | BH415799 | BH415799 | 100704461 | C 169 | 12.2 | 61.0 | 76 | 12 | AZ786377 | AZ786377 | 2M0031A23 |
| C 97 | 12.6 | 63.0 | 85 | 9 | AA462449 | AA462449 | vg67f09.r | 170 | 12.2 | 61.0 | 78 | 9 | AA523986 | AA523986 | ng22h10.s |
| C 98 | 12.6 | 63.0 | 86 | 9 | AI251201 | AI251201 | qv38g08.x | 171 | 12.2 | 61.0 | 78 | 9 | AA543093 | AA543093 | n136h01.s |
| C 99 | 12.6 | 63.0 | 86 | 10 | F27944 | F27944 | HSPD16255 H | C 172 | 12.2 | 61.0 | 80 | 12 | AZ312653 | AZ312653 | 1M0028117 |
| C 100 | 12.6 | 63.0 | 86 | 10 | BF577911 | BF577911 | 602091930 | C 173 | 12.2 | 61.0 | 82 | 10 | N80604 | N80604 | zB02h02.s1 |
| C 101 | 12.6 | 63.0 | 87 | 12 | AZ657121 | AZ657121 | 1M0533P01 | C 174 | 12.2 | 61.0 | 83 | 12 | AZ586964 | AZ586964 | 1M0394115 |
| C 102 | 12.6 | 63.0 | 88 | 9 | AA878180 | AA878180 | oe57h02.s | C 175 | 12.2 | 61.0 | 84 | 9 | AA013922 | AA013922 | mh24g02.r |
| C 103 | 12.6 | 63.0 | 88 | 9 | AA220489 | AA220489 | my11d03.r | 176 | 12.2 | 61.0 | 85 | 9 | AA013924 | AA013924 | mh24h02.r |
| C 104 | 12.6 | 63.0 | 88 | 12 | AZ484565 | AZ484565 | 1M0311B10 | 177 | 12.2 | 61.0 | 85 | 12 | B07667 | B07667 | CDCA4f5 C7I |
| C 105 | 12.6 | 63.0 | 94 | 9 | AI209059 | AI209059 | q928f08.x | C 178 | 12.2 | 61.0 | 88 | 9 | AA075937 | AA075937 | zm76g10.r |
| C 106 | 12.6 | 63.0 | 94 | 9 | AA500058 | AA500058 | vg56f04.r | C 179 | 12.2 | 61.0 | 88 | 9 | AA208047 | AA208047 | mv30e08.r |
| C 107 | 12.6 | 63.0 | 94 | 9 | AA591311 | AA591311 | vn56f04.r | C 180 | 12.2 | 61.0 | 90 | 9 | AJ233904 | AJ233904 | AJ233904 |
| C 108 | 12.6 | 63.0 | 94 | 10 | D19057 | D19057 | MUGS01262 | 181 | 12.2 | 61.0 | 90 | 12 | AZ306787 | AZ306787 | 1M0008E01 |
| C 109 | 12.6 | 63.0 | 94 | 12 | AZ807641 | AZ807641 | 2M0070C08 | 182 | 12.2 | 61.0 | 91 | 10 | H55680 | H55680 | CHR220619 C |
| C 110 | 12.6 | 63.0 | 95 | 10 | BI687618 | BI687618 | 603312603 | C 183 | 12.2 | 61.0 | 91 | 12 | AZ512215 | AZ512215 | 1M0357C07 |
| C 111 | 12.6 | 63.0 | 97 | 10 | H25068 | H25068 | Y131C03.r1 | 184 | 12.2 | 61.0 | 91 | 12 | BH216133 | BH216133 | 1006040E0 |
| C 112 | 12.6 | 63.0 | 99 | 10 | BF901442 | BF901442 | IL2-MT017 | 185 | 12.2 | 61.0 | 91 | 12 | BH224383 | BH224383 | 1006118F1 |
| C 113 | 12.6 | 63.0 | 99 | 10 | BI966181 | BI966181 | ie71g06.y | C 186 | 12.2 | 61.0 | 92 | 9 | AA886273 | AA886273 | o138f06.s |
| C 114 | 12.6 | 63.0 | 100 | 10 | BM068938 | BM068938 | id70h11.x | 187 | 12.2 | 61.0 | 92 | 12 | CNS041BL | CNS041BL | AI295914 Tetracodon |
| C 115 | 12.6 | 63.0 | 100 | 10 | BE841376 | BE841376 | QV3-SN005 | 188 | 12.2 | 61.0 | 93 | 10 | EG079665 | EG079665 | H3043D10- |
| C 116 | 12.6 | 63.0 | 100 | 12 | BH621569 | BH621569 | 1M07114D1 | 189 | 12.2 | 61.0 | 94 | 9 | AA106947 | AA106947 | ml191g01.r |
| C 117 | 12.4 | 62.0 | 22 | 12 | AZ492512 | AZ492512 | 1M0326K08 | 190 | 12.2 | 61.0 | 94 | 9 | AA443550 | AA443550 | zw34g05.s |
| C 118 | 12.4 | 62.0 | 43 | 9 | AI581111 | AI581111 | 1193e03.x | C 191 | 12.2 | 61.0 | 94 | 12 | AZ412509 | AZ412509 | 1M0186D06 |
| C 119 | 12.4 | 62.0 | 50 | 9 | AUI03161 | AUI03161 | AUI03161 | C 192 | 12.2 | 61.0 | 96 | 9 | AI690446 | AI690446 | tx87h02.x |
| C 120 | 12.4 | 62.0 | 50 | 9 | AUI03162 | AUI03162 | AUI03162 | C 193 | 12.2 | 61.0 | 98 | 9 | AA627337 | AA627337 | ng65f09.s |
| C 121 | 12.4 | 62.0 | 50 | 9 | AUI03170 | AUI03170 | AUI03170 | C 194 | 12.2 | 61.0 | 98 | 12 | AZ487322 | AZ487322 | 1M0316E24 |
| C 122 | 12.4 | 62.0 | 50 | 9 | AUI03171 | AUI03171 | AUI03171 | 195 | 12.2 | 61.0 | 99 | 9 | AA052512 | AA052512 | mf10c11.r |
| C 123 | 12.4 | 62.0 | 51 | 10 | BW97738 | BW97738 | mt199f02.r1 | C 196 | 12.2 | 61.0 | 99 | 10 | BF015403 | BF015403 | uy21a10.y |
| C 124 | 12.4 | 62.0 | 55 | 10 | BG759188 | BG759188 | at78d09.x | C 197 | 12.2 | 61.0 | 100 | 9 | AA755669 | AA755669 | vs74e09.r |
| C 125 | 12.4 | 62.0 | 59 | 9 | AI880479 | AI880479 | 602710848 | C 198 | 12.2 | 61.0 | 100 | 12 | BH226879 | BH226879 | 1006135E0 |
| C 126 | 12.4 | 62.0 | 61 | 10 | C20854 | C20854 | HUMGS000491 | 199 | 12.2 | 61.0 | 37 | 12 | AZ802544 | AZ802544 | 2M0058L20 |
| C 127 | 12.4 | 62.0 | 62 | 12 | AZ636491 | AZ636491 | 1M0495C24 | 200 | 12.2 | 61.0 | 45 | 10 | BF578678 | BF578678 | 602093151 |
| C 128 | 12.4 | 62.0 | 66 | 12 | AF149445 | AF149445 | AF149445 | 201 | 12.2 | 61.0 | 47 | 9 | AI052292 | AI052292 | oy3e02.x |
| C 129 | 12.4 | 62.0 | 67 | 9 | AA669910 | AA669910 | ag42g07.s | 202 | 12.2 | 61.0 | 47 | 12 | AZ615286 | AZ615286 | 1M0444I06 |
| C 130 | 12.4 | 62.0 | 69 | 9 | BE226220 | BE226220 | 1a17a12.y | 203 | 12.2 | 61.0 | 50 | 9 | AUI05917 | AUI05917 | AUI05917 |
| C 131 | 12.4 | 62.0 | 69 | 12 | BT281341 | BT281341 | B. taurus DN | 204 | 12.2 | 61.0 | 50 | 12 | AZ800436 | AZ800436 | 2M0058L20 |
| C 132 | 12.4 | 62.0 | 70 | 9 | AA666760 | AA666760 | vm50g09.r | 205 | 12.2 | 61.0 | 50 | 12 | TA315110 | TA315110 | AI49465 T. brucei |
| C 133 | 12.4 | 62.0 | 70 | 12 | BT278102 | BT278102 | B. taurus DN | 206 | 12.2 | 61.0 | 53 | 9 | AA459184 | AA459184 | zx88g02.r |
| C 134 | 12.4 | 62.0 | 70 | 12 | BT281333 | BT281333 | B. taurus DN | 207 | 12.2 | 61.0 | 53 | 12 | TA381A03P | TA381A03P | T. brucei |
| C 135 | 12.4 | 62.0 | 70 | 12 | BT281339 | BT281339 | B. taurus DN | C 208 | 12.2 | 61.0 | 56 | 9 | AA561753 | AA561753 | ga85h04.y |
| C 136 | 12.4 | 62.0 | 70 | 12 | BT281340 | BT281340 | B. taurus DN | 209 | 12.2 | 61.0 | 56 | 10 | BF342113 | BF342113 | 602012871 |
| C 137 | 12.4 | 62.0 | 78 | 10 | BE267726 | BE267726 | 601125037 | 210 | 12.2 | 61.0 | 57 | 10 | BI852649 | BI852649 | 603379304 |
| C 138 | 12.4 | 62.0 | 79 | 10 | BJ080460 | BJ080460 | BJ080460 | C 211 | 12.2 | 61.0 | 61 | 12 | CNS04NOI | CNS04NOI | Tetracodon |
| C 139 | 12.4 | 62.0 | 80 | 10 | BF038229 | BF038229 | 601457869 | C 212 | 12.2 | 61.0 | 64 | 9 | AA679302 | AA679302 | z128c09.s |
| C 140 | 12.4 | 62.0 | 84 | 12 | AF149583 | AF149583 | AF149583 | C 213 | 12.2 | 61.0 | 64 | 12 | AZ402523 | AZ402523 | 1M0169B22 |
| C 141 | 12.4 | 62.0 | 84 | 12 | CNS03YXT | CNS03YXT | AF149583 | C 214 | 12.2 | 61.0 | 64 | 12 | AZ919932 | AZ919932 | 1M0617C1 |
| C 142 | 12.4 | 62.0 | 85 | 10 | H09483 | H09483 | Y195a12.r1 | C 215 | 12.2 | 61.0 | 65 | 10 | BI765422 | BI765422 | 603050462 |
| C 143 | 12.4 | 62.0 | 86 | 10 | BG836381 | BG836381 | zm06.02e0 | 216 | 12.2 | 61.0 | 67 | 9 | AI589030 | AI589030 | tf80a03.x |
| C 144 | 12.4 | 62.0 | 86 | 10 | BE887282 | BE887282 | 601510104 | C 217 | 12.2 | 61.0 | 67 | 9 | AV847551 | AV847551 | AV847551 |
| C 145 | 12.4 | 62.0 | 86 | 12 | GG0000360 | GG0000360 | Gallus ga | C 218 | 12.2 | 61.0 | 68 | 12 | AZ771661 | AZ771661 | 1M0573O15 |
| C 146 | 12.4 | 62.0 | 86 | 12 | GG0000361 | GG0000361 | AI605881 | C 219 | 12.2 | 61.0 | 70 | 9 | AA787148 | AA787148 | mh8a02a1.f |
| C 147 | 12.4 | 62.0 | 91 | 9 | AI1122969 | AI1122969 | ck32e03.s | C 220 | 12.2 | 61.0 | 70 | 12 | BH227464 | BH227464 | 1006140C0 |
| C 148 | 12.4 | 62.0 | 93 | 12 | BH024282 | BH024282 | 0003A37 m | C 221 | 12.2 | 61.0 | 71 | 10 | BF634239 | BF634239 | NEF085H0P |
| C 149 | 12.4 | 62.0 | 96 | 10 | BG695034 | BG695034 | NISC.lv11 | C 222 | 12.2 | 61.0 | 71 | 12 | HSMC46C10 | HSMC46C10 | h.sapiens D |
| C 150 | 12.4 | 62.0 | 98 | 9 | AA455223 | AA455223 | taug288 N | 223 | 12.2 | 61.0 | 73 | 9 | BE226232 | BE226232 | 1a17e07.y |
| C 151 | 12.2 | 61.0 | 30 | 10 | BE901390 | BE901390 | 601674703 | 224 | 12.2 | 61.0 | 74 | 9 | AT005837 | AT005837 | AT005837 |
| C 152 | 12.2 | 61.0 | 46 | 9 | AA960633 | AA960633 | ud60a05.s | 225 | 12.2 | 61.0 | 74 | 12 | AZ396161 | AZ396161 | 1M0163N24 |
| C 153 | 12.2 | 61.0 | 48 | 9 | HSM003904 | HSM003904 | Hom0 sap1 | 226 | 12.2 | 61.0 | 74 | 12 | BH227767 | BH227767 | 1006142A1 |
| C 154 | 12.2 | 61.0 | 48 | 12 | AA871315 | AA871315 | vg3910.r | C 227 | 12.2 | 61.0 | 75 | 10 | T56078 | T56078 | yb36f01.r1 |
| C 155 | 12.2 | 61.0 | 48 | 12 | AA026239 | AA026239 | 1(3)11170 | 228 | 12.2 | 61.0 | 76 | 9 | AA575269 | AA575269 | vh19f07.r |
| C 156 | 12.2 | 61.0 | 49 | 10 | BJ040441 | BJ040441 | BJ040441 | 229 | 12.2 | 61.0 | 77 | 9 | AI088097 | AI088097 | coo2a04.x |
| C 157 | 12.2 | 61.0 | 50 | 9 | AUI02743 | AUI02743 | AUI02743 | 230 | 12.2 | 61.0 | 77 | 10 | BJ000657 | BJ000657 | BD000657 |
| C 158 | 12.2 | 61.0 | 56 | 9 | AA588014 | AA588014 | nm92f11.s | C 231 | 12.2 | 61.0 | 77 | 12 | AZ778104 | AZ778104 | 2M0015F09 |
| C 159 | 12.2 | 61.0 | 60 | 9 | AI380881 | AI380881 | tg17d03.x | C 232 | 12.2 | 61.0 | 78 | 9 | AV844864 | AV844864 | AV844864 |
| C 160 | 12.2 | 61.0 | 61 | 12 | CNS02TY9 | CNS02TY9 | Tetracodon | C 233 | 12.2 | 61.0 | 78 | 10 | BM041428 | BM041428 | 603614109 |
| C 161 | 12.2 | 61.0 | 63 | 12 | AZ871148 | AZ871148 | 2M0183F21 | C 234 | 12.2 | 61.0 | 78 | 12 | AZ493492 | AZ493492 | 1M0328N10 |
| C 162 | 12.2 | 61.0 | 67 | 12 | AZ778057 | AZ778057 | 2M0013P03 | C 235 | 12.2 | 61.0 | 79 | 9 | AI192178 | AI192178 | qc96c03.x |
| C 163 | 12.2 | 61.0 | 69 | 12 | BH216103 | BH216103 | 1006040C1 | 236 | 12.2 | 61.0 | 79 | 9 | AA437653 | AA437653 | AV8437653 |

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|-----|------|------|-----|----|----------|--------------------|-----|------|------|-----|----|-----------|---------------------|
| 237 | 12 | 60.0 | 79 | 12 | A2816527 | A2816527 2M085M14 | 310 | 11.8 | 59.0 | 76 | 9 | AA809985 | AA809985 oa95h05.s |
| 238 | 12 | 60.0 | 81 | 10 | Bj054945 | Bj054945 Bj054945 | 311 | 11.8 | 59.0 | 76 | 9 | AA182430 | AA182430 zp52f05.r |
| 239 | 12 | 60.0 | 81 | 10 | T55307 | T55307 yb47e04.s1 | 312 | 11.8 | 59.0 | 76 | 12 | A2407352 | A2407352 IM017BE04 |
| 240 | 12 | 60.0 | 81 | 12 | A2588175 | A2588175 IM0396M10 | 313 | 11.8 | 59.0 | 77 | 9 | AA444322 | AA444322 AB284 Pri |
| 241 | 12 | 60.0 | 82 | 9 | AA638459 | AA638459 v053d10.r | 314 | 11.8 | 59.0 | 77 | 9 | AA387938 | AA387938 vc87h07.r |
| 242 | 12 | 60.0 | 82 | 10 | Bi766469 | Bi766469 603052547 | 315 | 11.8 | 59.0 | 77 | 10 | T60478 | T60478 yb95c12.s1 |
| 243 | 12 | 60.0 | 84 | 12 | BH218565 | BH218565 1006079G0 | 316 | 11.8 | 59.0 | 77 | 10 | T60485 | T60485 yb95d12.s1 |
| 244 | 12 | 60.0 | 85 | 12 | R28972 | R28972_F0-23D_22 w | 317 | 11.8 | 59.0 | 77 | 10 | T71980 | T71980 yc63g07.s1 |
| 245 | 12 | 60.0 | 85 | 12 | AF039805 | AF039805 AF039805 | 318 | 11.8 | 59.0 | 77 | 10 | T74040 | T74040 yc55c07.s1 |
| 246 | 12 | 60.0 | 85 | 12 | A2465463 | A2465463 IM0275120 | 319 | 11.8 | 59.0 | 77 | 10 | T74577 | T74577 yc57c02.s1 |
| 247 | 12 | 60.0 | 85 | 12 | BH415810 | BH415810 1007044H0 | 320 | 11.8 | 59.0 | 79 | 9 | A1006020 | A1006020 ua85a03.r |
| 248 | 12 | 60.0 | 86 | 9 | AA477280 | AA477280 zua3e10.r | 321 | 11.8 | 59.0 | 79 | 9 | AA533865 | AA533865 nf190b03.s |
| 249 | 12 | 60.0 | 86 | 10 | Bi907368 | Bi907368 603063701 | 322 | 11.8 | 59.0 | 79 | 9 | AA583952 | AA583952 nm58q11.s |
| 250 | 12 | 60.0 | 87 | 9 | AA766519 | AA766519 oa33c06.s | 323 | 11.8 | 59.0 | 79 | 9 | AA595959 | AA595959 nm66d08.s |
| 251 | 12 | 60.0 | 87 | 9 | AA415326 | AA415326 vc99h03.s | 324 | 11.8 | 59.0 | 79 | 10 | N75564 | N75564 za80e03.s1 |
| 252 | 12 | 60.0 | 88 | 9 | AA490813 | AA490813 aa49e06.s | 325 | 11.8 | 59.0 | 79 | 10 | T71671 | T71671 yc62f12.s1 |
| 253 | 12 | 60.0 | 89 | 10 | Bi831719 | Bi831719 603078878 | 326 | 11.8 | 59.0 | 81 | 10 | T61624 | T61624 yb86h03.s1 |
| 254 | 12 | 60.0 | 89 | 12 | A2440374 | A2440374 IM0231123 | 327 | 11.8 | 59.0 | 81 | 12 | A2662222 | A2662222 IM0541M09 |
| 255 | 12 | 60.0 | 89 | 12 | A2780418 | A2780418 2M0017H16 | 328 | 11.8 | 59.0 | 82 | 9 | AA853015 | AA853015 NHTBCae02 |
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| 259 | 12 | 60.0 | 91 | 12 | A2381509 | A2381509 IM0138C12 | 332 | 11.8 | 59.0 | 83 | 10 | Bf436428 | Bf436428 fp1d10.x |
| 260 | 12 | 60.0 | 92 | 10 | Bi907312 | Bi907312 603063878 | 333 | 11.8 | 59.0 | 88 | 10 | H72090 | H72090 ys02b07.s1 |
| 261 | 12 | 60.0 | 92 | 12 | A2920879 | A2920879 1006021G0 | 334 | 11.8 | 59.0 | 89 | 9 | AA905779 | AA905779 o781908.s |
| 262 | 12 | 60.0 | 93 | 10 | Bi907705 | Bi907705 603065881 | 335 | 11.8 | 59.0 | 89 | 9 | AA587502 | AA587502 nm85a11.s |
| 263 | 12 | 60.0 | 94 | 10 | H27411 | H27411 y144b02.r1 | 336 | 11.8 | 59.0 | 89 | 10 | R70328 | R70328 yj81b12.r1 |
| 264 | 12 | 60.0 | 94 | 10 | W16006 | W16006 mb59e04.r1 | 337 | 11.8 | 59.0 | 89 | 10 | R75442 | R75442 MDb0613R MO |
| 265 | 12 | 60.0 | 94 | 10 | BE550968 | BE550968 7b66104.x | 338 | 11.8 | 59.0 | 91 | 9 | AA638880 | AA638880 vn75c08.r |
| 266 | 12 | 60.0 | 94 | 10 | Bf195669 | Bf195669 7b86g05.x | 339 | 11.8 | 59.0 | 91 | 10 | R29275 | R29275 F1-395D_22 |
| 267 | 12 | 60.0 | 95 | 9 | AA162810 | AA162810 au87e02.y | 340 | 11.8 | 59.0 | 91 | 12 | A2452017 | A2452017 IM0251110 |
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| 269 | 12 | 60.0 | 96 | 10 | Bi820249 | Bi820249 603037096 | 342 | 11.8 | 59.0 | 92 | 12 | A2772402 | A2772402 IM0583F15 |
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| 274 | 12 | 60.0 | 98 | 9 | AA129151 | AA129151 xf20c03.x | 347 | 11.8 | 59.0 | 97 | 10 | H63654 | H63654 yf34f12.s1 |
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| 280 | 12 | 60.0 | 100 | 12 | BE662074 | BE662074 bs20b06.y | 353 | 11.8 | 59.0 | 99 | 12 | BH623590 | BH623590 1007110D0 |
| 281 | 12 | 60.0 | 100 | 12 | A2920194 | A2920194 1006018F0 | 354 | 11.8 | 59.0 | 100 | 9 | AA865732 | AA865732 OV3-SN002 |
| 282 | 12 | 60.0 | 100 | 12 | A2920577 | A2920577 1006020E0 | 355 | 11.8 | 59.0 | 100 | 9 | AA992498 | AA992498 CM2-BN002 |
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| 284 | 12 | 60.0 | 100 | 12 | BH214972 | BH214972 1006012F0 | 357 | 11.8 | 59.0 | 100 | 10 | BM287835 | BM287835 528645 MA |
| 285 | 11.8 | 59.0 | 100 | 12 | A2794791 | A2794791 2M0048B13 | 358 | 11.8 | 59.0 | 100 | 12 | AF107435 | AF107435 AF107435 |
| 286 | 11.8 | 59.0 | 49 | 10 | N73125 | N73125 yv69f12.r1 | 359 | 11.8 | 59.0 | 100 | 12 | LA8753 | LA8753 HUMAN Chrom |
| 287 | 11.8 | 59.0 | 50 | 9 | AU107594 | AU107594 AU107594 | 360 | 11.8 | 59.0 | 30 | 12 | A2485270 | A2485270 IM0312P04 |
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| 290 | 11.8 | 59.0 | 52 | 12 | A2977687 | A2977687 2M0253M07 | 363 | 11.8 | 59.0 | 38 | 12 | TA208E01P | TA208E01P |
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| 292 | 11.8 | 59.0 | 57 | 12 | A2787332 | A2787332 2M0031I19 | 365 | 11.8 | 59.0 | 44 | 12 | A2834953 | A2834953 2M0117J23 |
| 293 | 11.8 | 59.0 | 60 | 10 | T53893 | T53893 yb83e01.r1 | 366 | 11.8 | 59.0 | 45 | 10 | H98043 | H98043 yw10f05.r1 |
| 294 | 11.8 | 59.0 | 60 | 12 | A2460727 | A2460727 IM0266011 | 367 | 11.8 | 59.0 | 47 | 12 | A2307665 | A2307665 IM0009J24 |
| 295 | 11.8 | 59.0 | 61 | 9 | A1688166 | A1688166 lx32h01.x | 368 | 11.8 | 59.0 | 48 | 10 | BE896246 | BE896246 601438968 |
| 296 | 11.8 | 59.0 | 62 | 9 | AA790239 | AA790239 vw16a03.r | 369 | 11.8 | 59.0 | 50 | 9 | AU103643 | AU103643 AU103643 |
| 297 | 11.8 | 59.0 | 62 | 10 | Bi965193 | Bi965193 l434h02.y | 370 | 11.8 | 59.0 | 50 | 9 | AU103644 | AU103644 AU103644 |
| 298 | 11.8 | 59.0 | 62 | 10 | BE321110 | BE321110 NF020M04I | 371 | 11.8 | 59.0 | 50 | 9 | AU103645 | AU103645 AU103645 |
| 299 | 11.8 | 59.0 | 64 | 9 | AA909250 | AA909250 om33b11.s | 372 | 11.8 | 59.0 | 50 | 9 | AU103646 | AU103646 AU103646 |
| 300 | 11.8 | 59.0 | 64 | 12 | A2806753 | A2806753 2M0066G04 | 373 | 11.8 | 59.0 | 50 | 9 | AU103652 | AU103652 AU103652 |
| 301 | 11.8 | 59.0 | 64 | 12 | A2921047 | A2921047 1006033G0 | 374 | 11.8 | 59.0 | 50 | 12 | TA117H07Q | TA117H07Q |
| 302 | 11.8 | 59.0 | 65 | 10 | Bi907221 | Bi907221 603065232 | 375 | 11.8 | 59.0 | 51 | 12 | AQ0073820 | AQ0073820 EP(3)J209 |
| 303 | 11.8 | 59.0 | 66 | 12 | A2970009 | A2970009 2M0243E03 | 376 | 11.8 | 59.0 | 51 | 12 | BH217211 | BH217211 1006053A1 |
| 304 | 11.8 | 59.0 | 67 | 9 | A1648873 | A1648873 uk31c02.x | 377 | 11.8 | 59.0 | 52 | 9 | AA622069 | AA622069 ng54b08.s |
| 305 | 11.8 | 59.0 | 71 | 10 | BM021444 | BM021444 l677a07.y | 378 | 11.8 | 59.0 | 52 | 12 | A2589567 | A2589567 IM0398F08 |
| 306 | 11.8 | 59.0 | 71 | 12 | BH413708 | BH413708 1007034A0 | 379 | 11.8 | 59.0 | 52 | 12 | A2779569 | A2779569 2M0015J09 |
| 307 | 11.8 | 59.0 | 71 | 12 | BH615084 | BH615084 K502862-3 | 380 | 11.8 | 59.0 | 54 | 12 | Bi755147 | Bi755147 603022884 |
| 308 | 11.8 | 59.0 | 73 | 10 | Bi440026 | Bi440026 lc76c02.x | 381 | 11.8 | 59.0 | 54 | 12 | B06434 | B06434 CSRL-80d8-u |
| 309 | 11.8 | 59.0 | 73 | 12 | A2465953 | A2465953 IM0276E15 | 382 | 11.8 | 59.0 | 55 | 9 | AA054402 | AA054402 zfs4h02.r |

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|-------|------|------|----|----|-----------|----------------------|-------|------|------|-----|----|-----------|----------------------|
| C 383 | 11.6 | 58.0 | 56 | 10 | H52830 | H52830 y022c12..r1 | C 456 | 11.6 | 58.0 | 100 | 9 | AA090455 | AA090455 y0461..seq |
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| C 391 | 11.6 | 58.0 | 66 | 10 | CNS02XTT | AL218148 Tetraodon | C 464 | 11.4 | 57.0 | 35 | 10 | BF340885 | BF340885 602037788 |
| C 392 | 11.6 | 58.0 | 68 | 12 | B1418148 | B1418148 LjNESTR3C | C 465 | 11.4 | 57.0 | 37 | 12 | AZ832358 | AZ832358 2M0112P10 |
| C 393 | 11.6 | 58.0 | 68 | 10 | BF507303 | BF507303 8184P-9a | C 466 | 11.4 | 57.0 | 40 | 9 | AA208344 | AA208344 mv84h09..r |
| C 394 | 11.6 | 58.0 | 68 | 12 | B33234 | B33234 HS-1016-B2- | C 467 | 11.4 | 57.0 | 41 | 10 | BG472622 | BG472622 602514402 |
| C 395 | 11.6 | 58.0 | 69 | 12 | AZ434067 | AZ434067 1M0220113 | C 468 | 11.4 | 57.0 | 42 | 10 | BE823879 | BE823879 603039045 |
| C 396 | 11.6 | 58.0 | 70 | 9 | AA661675 | AA661675 nu87a09..s | C 469 | 11.4 | 57.0 | 46 | 9 | AA871967 | AA871967 vq43h03..r |
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| C 398 | 11.6 | 58.0 | 70 | 12 | AZ819154 | AZ819154 2M0089C11 | C 471 | 11.4 | 57.0 | 49 | 12 | AZ435462 | AZ435462 1M0222F03 |
| C 399 | 11.6 | 58.0 | 71 | 9 | AA855536 | AA855536 vw74e03..r | C 472 | 11.4 | 57.0 | 54 | 9 | AV833354 | AV833354 AV833354 |
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| C 401 | 11.6 | 58.0 | 73 | 12 | TA127G09P | AL465528 T. brucei | C 474 | 11.4 | 57.0 | 58 | 9 | AA189375 | AA189375 vv93e07..r |
| C 402 | 11.6 | 58.0 | 74 | 9 | AA908651 | AA908651 o104b03..s | C 475 | 11.4 | 57.0 | 58 | 9 | AA631631 | AA631631 np59e03..s |
| C 403 | 11.6 | 58.0 | 74 | 12 | T72869 | T72869 yc52c05..s1 | C 476 | 11.4 | 57.0 | 58 | 10 | W90975 | W90975 mF87h01..r1 |
| C 404 | 11.6 | 58.0 | 74 | 10 | AZ765055 | AZ765055 1M0561J14 | C 477 | 11.4 | 57.0 | 60 | 12 | AZ643330 | AZ643330 1M0506D17 |
| C 405 | 11.6 | 58.0 | 77 | 9 | AA733451 | AA733451 vt74g03..r | C 478 | 11.4 | 57.0 | 64 | 12 | AZ760474 | AZ760474 1M0554P13 |
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| C 407 | 11.6 | 58.0 | 77 | 10 | R99455 | R99455 yq79h04..r1 | C 480 | 11.4 | 57.0 | 65 | 12 | BH128225 | BH128225 G-2011..f |
| C 408 | 11.6 | 58.0 | 78 | 9 | AA666903 | AA666903 vr85h12..s | C 481 | 11.4 | 57.0 | 66 | 10 | R97968 | R97968 yq74f11..s1 |
| C 409 | 11.6 | 58.0 | 78 | 9 | AA680917 | AA680917 ua47c07..r | C 482 | 11.4 | 57.0 | 70 | 9 | AA545052 | AA545052 v170h12..r |
| C 410 | 11.6 | 58.0 | 78 | 9 | AA213135 | AA213135 mw82f01..r | C 483 | 11.4 | 57.0 | 71 | 10 | BF466025 | BF466025 UI-M-CGP |
| C 411 | 11.6 | 58.0 | 78 | 9 | AV844473 | AV844473 AV844473 | C 484 | 11.4 | 57.0 | 73 | 9 | AA604291 | AA604291 no75h01..s |
| C 412 | 11.6 | 58.0 | 78 | 10 | BG642250 | BG642250 3A11 Dros | C 485 | 11.4 | 57.0 | 74 | 12 | AZ389729 | AZ389729 1M0150L07 |
| C 413 | 11.6 | 58.0 | 79 | 9 | AT005820 | AT005820 AT005820 | C 486 | 11.4 | 57.0 | 75 | 10 | N57303 | N57303 yw81D02..r1 |
| C 414 | 11.6 | 58.0 | 79 | 10 | BM177082 | BM177082 sa376101.. | C 487 | 11.4 | 57.0 | 78 | 12 | AZ379045 | AZ379045 1M0134M05 |
| C 415 | 11.6 | 58.0 | 80 | 10 | C20837 | C20837 HMG5000488 | C 488 | 11.4 | 57.0 | 81 | 12 | BH634787 | BH634787 EP(2)0649 |
| C 416 | 11.6 | 58.0 | 80 | 12 | TA219E07P | AA216955 mt71f09..r | C 489 | 11.4 | 57.0 | 82 | 9 | A1536325 | A1536325 ma87d02..y |
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| C 418 | 11.6 | 58.0 | 82 | 12 | AZ800329 | AZ800329 2M0058J14 | C 491 | 11.4 | 57.0 | 83 | 10 | BT907920 | BT907920 603069042 |
| C 419 | 11.6 | 58.0 | 83 | 9 | AA902873 | AA902873 o149d11..s | C 492 | 11.4 | 57.0 | 83 | 10 | BJ052775 | BJ052775 B1052775 |
| C 420 | 11.6 | 58.0 | 83 | 10 | BG345720 | BG345720 dg40d05..y | C 493 | 11.4 | 57.0 | 83 | 10 | AZ807290 | AZ807290 2M0070106 |
| C 421 | 11.6 | 58.0 | 83 | 12 | AZ388886 | AZ388886 1M0149E08 | C 494 | 11.4 | 57.0 | 85 | 9 | H66204 | H66204 yu16f12..s1 |
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| C 423 | 11.6 | 58.0 | 85 | 10 | BG066675 | BG066675 H3044G08- | C 496 | 11.4 | 57.0 | 87 | 10 | BG099458 | BG099458 na64d409..s |
| C 424 | 11.6 | 58.0 | 86 | 10 | CO4490 | CO4490 CO4490 Huma | C 497 | 11.4 | 57.0 | 87 | 10 | W09235 | W09235 ma07g08..r1 |
| C 425 | 11.6 | 58.0 | 86 | 10 | R97571 | R97571 yq57c10..s1 | C 498 | 11.4 | 57.0 | 89 | 12 | AZ828841 | AZ828841 2M0107A17 |
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| C 427 | 11.6 | 58.0 | 88 | 9 | AT092457 | AT092457 ga75g11..x | C 500 | 11.4 | 57.0 | 91 | 10 | W21369 | W21369 zb59e02..r1 |
| C 428 | 11.6 | 58.0 | 88 | 12 | AZ799341 | AZ799341 2M0056F07 | C 501 | 11.4 | 57.0 | 94 | 9 | A1036012 | A1036012 vz68a09..r |
| C 429 | 11.6 | 58.0 | 88 | 12 | U77523 | U77523 U77523 Huma | C 502 | 11.4 | 57.0 | 95 | 10 | BT830397 | BT830397 603073448 |
| C 430 | 11.6 | 58.0 | 89 | 12 | BH406046 | BH406046 RPCT-23-2 | C 503 | 11.4 | 57.0 | 96 | 10 | BG393398 | BG393398 602411743 |
| C 431 | 11.6 | 58.0 | 90 | 10 | BT224227 | BT224227 602940515 | C 504 | 11.4 | 57.0 | 97 | 9 | AU077072 | AU077072 AU077072 |
| C 432 | 11.6 | 58.0 | 91 | 9 | AA795434 | AA795434 vv20a12..r | C 505 | 11.4 | 57.0 | 98 | 9 | AA138995 | AA138995 vv68e12..r |
| C 433 | 11.6 | 58.0 | 91 | 12 | BH226119 | BH226119 1006130B1 | C 506 | 11.4 | 57.0 | 98 | 9 | A1505390 | A1505390 vq81C04..x |
| C 434 | 11.6 | 58.0 | 92 | 9 | AA172417 | AA172417 ms97f12..r | C 507 | 11.4 | 57.0 | 98 | 12 | CNS03CLZ | AA5237968 Tetraodon |
| C 435 | 11.6 | 58.0 | 93 | 12 | AZ602715 | AZ602715 1M0421B10 | C 508 | 11.4 | 57.0 | 100 | 9 | AA593357 | AA593357 no07g03..s |
| C 436 | 11.6 | 58.0 | 94 | 12 | AO034121 | AO034121 1(2)K1430 | C 509 | 11.4 | 57.0 | 100 | 10 | BT054698 | BT054698 MR3-GN035 |
| C 437 | 11.6 | 58.0 | 94 | 12 | AZ764419 | AZ764419 1M0560B24 | C 510 | 11.2 | 56.0 | 20 | 12 | AZ861324 | AZ861324 2M0167A13 |
| C 438 | 11.6 | 58.0 | 95 | 12 | AZ626727 | AZ626727 1M0467F11 | C 511 | 11.2 | 56.0 | 28 | 12 | TA205F09P | TA205F09P |
| C 439 | 11.6 | 58.0 | 95 | 12 | AA921997 | AA921997 HRCotLF08 | C 512 | 11.2 | 56.0 | 31 | 12 | AZ510401 | AZ510401 1M0354F22 |
| C 440 | 11.6 | 58.0 | 96 | 9 | AA987834 | AA987834 oq93f03..s | C 513 | 11.2 | 56.0 | 35 | 2 | HSW003903 | HSW003903 |
| C 441 | 11.6 | 58.0 | 96 | 10 | BF506816 | BF506816 10J22L45 | C 514 | 11.2 | 56.0 | 35 | 12 | AA025381 | AA025381 EP(X)1088 |
| C 442 | 11.6 | 58.0 | 96 | 12 | AO024952 | AO024952 EP(2)0550 | C 515 | 11.2 | 56.0 | 39 | 10 | BE038837 | BE038837 601462043 |
| C 443 | 11.6 | 58.0 | 96 | 12 | BH223697 | BH223697 1006114D1 | C 516 | 11.2 | 56.0 | 41 | 10 | BM394051 | BM394051 50072-2-1 |
| C 444 | 11.6 | 58.0 | 96 | 12 | CNS01YLV | AA1173164 Tetraodon | C 517 | 11.2 | 56.0 | 43 | 9 | AA920047 | AA920047 vy63h06..r |
| C 445 | 11.6 | 58.0 | 97 | 9 | AA811732 | AA811732 ob84d02..s | C 518 | 11.2 | 56.0 | 43 | 9 | AA549203 | AA549203 vk85d08..s |
| C 446 | 11.6 | 58.0 | 97 | 9 | AA247813 | AA247813 hfe0676..s | C 519 | 11.2 | 56.0 | 44 | 12 | AZ474015 | AZ474015 1M0290A13 |
| C 447 | 11.6 | 58.0 | 97 | 10 | BG812139 | BG812139 dz6f66a10.. | C 520 | 11.2 | 56.0 | 46 | 10 | BT033988 | BT033988 BJ033988 |
| C 448 | 11.6 | 58.0 | 97 | 12 | AZ483576 | AZ483576 1M0309F22 | C 521 | 11.2 | 56.0 | 48 | 12 | AZ805973 | AZ805973 2M0067M10 |
| C 449 | 11.6 | 58.0 | 97 | 12 | AZ490829 | AZ490829 1M0324F04 | C 522 | 11.2 | 56.0 | 50 | 9 | AU103073 | AU103073 AU103073 |
| C 450 | 11.6 | 58.0 | 98 | 9 | AA692788 | AA692788 vr35b10..s | C 523 | 11.2 | 56.0 | 50 | 9 | AU103457 | AU103457 AU103457 |
| C 451 | 11.6 | 58.0 | 98 | 10 | C99875 | C99875 C99875 Arab | C 524 | 11.2 | 56.0 | 51 | 9 | AU081908 | AU081908 AU081908 |
| C 452 | 11.6 | 58.0 | 98 | 10 | F30603 | F30603 HSPD21158 H | C 525 | 11.2 | 56.0 | 51 | 9 | AA106275 | AA106275 um25e08..y |
| C 453 | 11.6 | 58.0 | 98 | 12 | AZ621921 | AZ621921 1M0455G20 | C 526 | 11.2 | 56.0 | 52 | 9 | AA962681 | AA962681 opt12a05..s |
| C 454 | 11.6 | 58.0 | 99 | 9 | AA374685 | AA374685 MR1-CT005 | C 527 | 11.2 | 56.0 | 55 | 9 | A1198864 | A1198864 q145e01..x |
| C 455 | 11.6 | 58.0 | 99 | 10 | H95753 | H95753 yL96c09..s1 | C 528 | 11.2 | 56.0 | 55 | 12 | AZ735861 | AZ735861 ev14ec04..x |

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|-------|------|------|----|----|----------|-------------|-----------|-----|------|------|-----|----|-----------|-----------|------------|-----------|
| C 529 | 11.2 | 56.0 | 56 | 12 | A2424600 | A2424600 | 1M0204113 | 602 | 11.2 | 56.0 | 86 | 10 | F24427 | F24427 | HSPD10727 | H |
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| C 537 | 11.2 | 56.0 | 61 | 12 | A2818822 | 2M0089001 | A2818822 | 610 | 11.2 | 56.0 | 88 | 12 | A2328076 | A2328076 | 1M0051J12 | AZ328076 |
| C 538 | 11.2 | 56.0 | 62 | 12 | A2341550 | 1M0074A05 | A2341550 | 611 | 11.2 | 56.0 | 89 | 10 | AA212943 | AA212943 | mw81909.r | AA212943 |
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| C 540 | 11.2 | 56.0 | 63 | 10 | AA127087 | zn28h10.r | AA127087 | 613 | 11.2 | 56.0 | 89 | 10 | R72080 | R72080 | yj87d04.s1 | R72080 |
| C 541 | 11.2 | 56.0 | 63 | 10 | R75695 | y121f02.r1 | R75695 | 614 | 11.2 | 56.0 | 89 | 12 | HSEKTR35 | HSEKTR35 | | Y10934 |
| C 542 | 11.2 | 56.0 | 64 | 12 | A2437101 | 1M0225U12 | A2437101 | 615 | 11.2 | 56.0 | 90 | 10 | H27542 | H27542 | | |
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| C 544 | 11.2 | 56.0 | 64 | 9 | AJ301791 | AJ301791 | AJ301791 | 617 | 11.2 | 56.0 | 90 | 12 | A2852067 | A2852067 | | |
| C 545 | 11.2 | 56.0 | 64 | 9 | AV834364 | AV834364 | AV834364 | 618 | 11.2 | 56.0 | 91 | 10 | AA837015 | AA837015 | | |
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| C 562 | 11.2 | 56.0 | 71 | 12 | A2310761 | 1M0025D22 | A2310761 | 635 | 11.2 | 56.0 | 98 | 10 | AA190110 | AA190110 | | |
| C 563 | 11.2 | 56.0 | 73 | 9 | AA445034 | vg57906.r | AA445034 | 636 | 11.2 | 56.0 | 98 | 10 | BG108751 | BG108751 | | |
| C 564 | 11.2 | 56.0 | 74 | 12 | A2609704 | 1M0434C10 | A2609704 | 637 | 11.2 | 56.0 | 98 | 10 | B1884209 | B1884209 | | |
| C 565 | 11.2 | 56.0 | 75 | 9 | AA166270 | xm50e06.x | AA166270 | 638 | 11.2 | 56.0 | 98 | 12 | A2323038 | A2323038 | | |
| C 566 | 11.2 | 56.0 | 75 | 12 | A2779603 | 2M0016D14 | A2779603 | 639 | 11.2 | 56.0 | 98 | 12 | CNS04C2M | CNS04C2M | | |
| C 567 | 11.2 | 56.0 | 75 | 12 | A2789059 | 2M0036M02 | A2789059 | 640 | 11.2 | 56.0 | 99 | 9 | AV834179 | AV834179 | | |
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| C 569 | 11.2 | 56.0 | 76 | 9 | AA451089 | vf67d06.r | AA451089 | 642 | 11.2 | 56.0 | 99 | 12 | A2300942 | A2300942 | | |
| C 570 | 11.2 | 56.0 | 76 | 9 | BE226228 | 1a17d06.y | BE226228 | 643 | 11.2 | 56.0 | 100 | 9 | AA699662 | AA699662 | | |
| C 571 | 11.2 | 56.0 | 77 | 9 | AA675450 | vr72a08.s | AA675450 | 644 | 11.2 | 56.0 | 100 | 9 | AA717848 | AA717848 | | |
| C 572 | 11.2 | 56.0 | 77 | 10 | B1729559 | 603349206 | B1729559 | 645 | 11.2 | 56.0 | 100 | 9 | AA883967 | AA883967 | | |
| C 573 | 11.2 | 56.0 | 78 | 10 | BE905781 | 601495615 | BE905781 | 646 | 11.2 | 56.0 | 100 | 9 | A1019405 | A1019405 | | |
| C 574 | 11.2 | 56.0 | 78 | 12 | A2758315 | 1M0550P17 | A2758315 | 647 | 11.2 | 56.0 | 100 | 9 | A1882347 | A1882347 | | |
| C 575 | 11.2 | 56.0 | 79 | 9 | AA994500 | ou17h12.s | AA994500 | 648 | 11.2 | 56.0 | 100 | 10 | BF924814 | BF924814 | | |
| C 576 | 11.2 | 56.0 | 79 | 9 | A1906717 | QV-BT124- | A1906717 | 649 | 11.2 | 56.0 | 100 | 10 | B1542489 | B1542489 | | |
| C 577 | 11.2 | 56.0 | 79 | 10 | D19084 | MUSGS01291 | D19084 | 650 | 11.2 | 56.0 | 100 | 10 | R37055 | R37055 | | |
| C 578 | 11.2 | 56.0 | 79 | 10 | BE662223 | bs32a11.y | BE662223 | 651 | 11.2 | 56.0 | 100 | 10 | A2308526 | A2308526 | | |
| C 579 | 11.2 | 56.0 | 79 | 10 | BF007725 | 1609319.A | BF007725 | 652 | 11.2 | 56.0 | 100 | 10 | AA832439 | AA832439 | | |
| C 580 | 11.2 | 56.0 | 79 | 12 | AZ308168 | 1M0010G24 | AZ308168 | 653 | 11.2 | 56.0 | 100 | 9 | AA883967 | AA883967 | | |
| C 581 | 11.2 | 56.0 | 79 | 12 | AZ961518 | 2M0230B06 | AZ961518 | 654 | 11.2 | 56.0 | 100 | 9 | A1019405 | A1019405 | | |
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| C 583 | 11.2 | 56.0 | 80 | 10 | BF507029 | 15971P-3a | BF507029 | 656 | 11.2 | 56.0 | 100 | 9 | A1667553 | A1667553 | | |
| C 584 | 11.2 | 56.0 | 80 | 12 | A2454568 | 1M0256N05 | A2454568 | 657 | 11.2 | 56.0 | 100 | 10 | A2502580 | A2502580 | | |
| C 585 | 11.2 | 56.0 | 82 | 9 | AA736409 | zg91c08.s | AA736409 | 658 | 11.2 | 56.0 | 100 | 10 | A2989635 | A2989635 | | |
| C 586 | 11.2 | 56.0 | 82 | 9 | A1800909 | w014c07.x | A1800909 | 659 | 11.2 | 56.0 | 100 | 10 | T73300 | T73300 | | |
| C 587 | 11.2 | 56.0 | 82 | 9 | AA223097 | z105e08.r | AA223097 | 660 | 11.2 | 56.0 | 100 | 10 | BE736376 | BE736376 | | |
| C 588 | 11.2 | 56.0 | 82 | 9 | AA444380 | | AA444380 | 661 | 11.2 | 56.0 | 100 | 9 | AA689440 | AA689440 | | |
| C 589 | 11.2 | 56.0 | 82 | 12 | A2336125 | | A2336125 | 662 | 11.2 | 56.0 | 100 | 9 | AA908519 | AA908519 | | |
| C 590 | 11.2 | 56.0 | 83 | 9 | AA795495 | vg95901.r | AA795495 | 663 | 11.2 | 56.0 | 100 | 9 | AA970900 | AA970900 | | |
| C 591 | 11.2 | 56.0 | 83 | 12 | CNS04M01 | | CNS04M01 | 664 | 11.2 | 56.0 | 100 | 9 | AA984739 | AA984739 | | |
| C 592 | 11.2 | 56.0 | 84 | 9 | AA613496 | nq22a02.s | AA613496 | 665 | 11.2 | 56.0 | 100 | 9 | A1115350 | A1115350 | | |
| C 593 | 11.2 | 56.0 | 85 | 9 | A1761529 | w61e02.x | A1761529 | 666 | 11.2 | 56.0 | 100 | 9 | AA064107 | AA064107 | | |
| C 594 | 11.2 | 56.0 | 85 | 9 | AT005809 | AT005809 | AT005809 | 667 | 11.2 | 56.0 | 100 | 9 | AA401222 | AA401222 | | |
| C 595 | 11.2 | 56.0 | 85 | 9 | AA592924 | nm02b02.s | AA592924 | 668 | 11.2 | 56.0 | 100 | 9 | AA471791 | AA471791 | | |
| C 596 | 11.2 | 56.0 | 85 | 10 | AA617291 | vr14b07.r | AA617291 | 669 | 11.2 | 56.0 | 100 | 12 | A2814914 | A2814914 | | |
| C 597 | 11.2 | 56.0 | 85 | 10 | BI313720 | da130h08. | BI313720 | 670 | 11.2 | 56.0 | 100 | 12 | A2576433 | A2576433 | | |
| C 598 | 11.2 | 56.0 | 85 | 10 | BM269606 | sak02a02. | BM269606 | 671 | 11.2 | 56.0 | 100 | 12 | AZ801137 | AZ801137 | | |
| C 599 | 11.2 | 56.0 | 85 | 12 | AZ655269 | 1M0546B11 | AZ655269 | 672 | 11.2 | 56.0 | 100 | 12 | BJ033613 | BJ033613 | | |
| C 600 | 11.2 | 56.0 | 86 | 9 | AA420320 | vd03h06.s | AA420320 | 673 | 11.2 | 56.0 | 100 | 10 | AA109083 | AA109083 | | |
| C 601 | 11.2 | 56.0 | 86 | 10 | D18622 | MUSGS01683 | D18622 | 674 | 11.2 | 56.0 | 100 | 10 | B1562485 | B1562485 | | |

| | | | | | | | | | | | | | | | |
|-------|----|------|----|----|----------|----------|-------------|-------|----|------|----|----|----------|----------|--------------|
| C 675 | 11 | 55.0 | 46 | 12 | A2435897 | A2435897 | 1M0223C17 | C 748 | 11 | 55.0 | 68 | 12 | A2921628 | A2921628 | 1006030G0 |
| C 676 | 11 | 55.0 | 47 | 10 | C012322 | C012322 | HDM5000793 | C 749 | 11 | 55.0 | 69 | 12 | BH218695 | BH218695 | 1006074E0 |
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| C 678 | 11 | 55.0 | 49 | 9 | AA052336 | AA052336 | mbd55B02.r | C 751 | 11 | 55.0 | 69 | 9 | AM133442 | AM133442 | sel19e08.y |
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| C 680 | 11 | 55.0 | 49 | 9 | AA223767 | AA223767 | zr10a05.r | C 753 | 11 | 55.0 | 69 | 10 | R95454 | R95454 | CBS-f065 Sub |
| C 681 | 11 | 55.0 | 49 | 10 | W17887 | W17887 | mb72e03.r.1 | C 754 | 11 | 55.0 | 69 | 10 | BE323468 | BE323468 | CG08C02P |
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| C 684 | 11 | 55.0 | 50 | 9 | AU103474 | AU103474 | AU103474 | C 757 | 11 | 55.0 | 70 | 9 | AA228714 | AA228714 | nc47h10.s |
| C 685 | 11 | 55.0 | 50 | 9 | AU103585 | AU103585 | AU103585 | C 758 | 11 | 55.0 | 70 | 9 | AA464209 | AA464209 | ne89D03.s |
| C 686 | 11 | 55.0 | 50 | 9 | AU104305 | AU104305 | AU104305 | C 759 | 11 | 55.0 | 70 | 9 | AA550897 | AA550897 | nj85f09.s |
| C 687 | 11 | 55.0 | 50 | 9 | AU105914 | AU105914 | AU105914 | C 760 | 11 | 55.0 | 70 | 10 | F28800 | F28800 | FP8D018230 H |
| C 688 | 11 | 55.0 | 50 | 9 | AU105918 | AU105918 | AU105918 | C 761 | 11 | 55.0 | 71 | 10 | BE306519 | BE306519 | 60112720 |
| C 689 | 11 | 55.0 | 50 | 9 | AU106363 | AU106363 | AU106363 | C 762 | 11 | 55.0 | 71 | 10 | BF163444 | BF163444 | 601771613 |
| C 690 | 11 | 55.0 | 50 | 9 | AU106963 | AU106963 | AU106963 | C 763 | 11 | 55.0 | 71 | 10 | BF644000 | BF644000 | FP089A00E |
| C 691 | 11 | 55.0 | 50 | 9 | AU106964 | AU106964 | AU106964 | C 764 | 11 | 55.0 | 72 | 9 | AA912250 | AA912250 | 0194a11.s |
| C 692 | 11 | 55.0 | 50 | 9 | AU106965 | AU106965 | AU106965 | C 765 | 11 | 55.0 | 72 | 12 | A2313861 | A2313861 | 1M0030E22 |
| C 693 | 11 | 55.0 | 51 | 12 | A2483337 | A2483337 | 1M0308M19 | C 766 | 11 | 55.0 | 73 | 9 | AI200370 | AI200370 | qf98Bd12.x |
| C 694 | 11 | 55.0 | 52 | 10 | T74686 | T74686 | yc60B07.s.1 | C 767 | 11 | 55.0 | 73 | 9 | AA221547 | AA221547 | mm12D09.r |
| C 695 | 11 | 55.0 | 52 | 10 | BE316613 | BE316613 | FP057H06L | C 768 | 11 | 55.0 | 73 | 10 | BM126978 | BM126978 | if01h04.y |
| C 696 | 11 | 55.0 | 53 | 9 | AI920053 | AI920053 | 1583 pine | C 769 | 11 | 55.0 | 73 | 12 | A0073837 | A0073837 | EP(3)3228 |
| C 697 | 11 | 55.0 | 53 | 10 | BM021423 | BM021423 | ie77a08.y | C 770 | 11 | 55.0 | 73 | 12 | A2642210 | A2642210 | 1M0505F07 |
| C 698 | 11 | 55.0 | 53 | 10 | BF026981 | BF026981 | 601671161 | C 771 | 11 | 55.0 | 74 | 9 | AA914753 | AA914753 | yy92a03.r |
| C 699 | 11 | 55.0 | 53 | 12 | A2587311 | A2587311 | 1M0394H23 | C 772 | 11 | 55.0 | 74 | 10 | BJ066591 | BJ066591 | yr34f09.s.1 |
| C 700 | 11 | 55.0 | 54 | 12 | A2917885 | A2917885 | 1006002D0 | C 773 | 11 | 55.0 | 74 | 10 | H63651 | H63651 | yc58e08.s.1 |
| C 701 | 11 | 55.0 | 55 | 9 | AA470398 | AA470398 | ne10f03.s | C 774 | 11 | 55 | | | | | |

| | | | | | | | | | | | | | |
|-------|----|------|----|----|-----------|----------------------|-------|------|------|-----|----|-----------|-----------|
| C 821 | 11 | 55.0 | 86 | 9 | AV533640 | AV533640 | 894 | 11 | 55.0 | 97 | 12 | AZ498392 | AZ498392 |
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| C 834 | 11 | 55.0 | 88 | 9 | AI330499 | AI330499 OC37a07.s | C 907 | 11 | 55.0 | 99 | 10 | BE384019 | BE384019 |
| C 835 | 11 | 55.0 | 88 | 9 | AA501082 | AA501082 vF97c01.r | C 908 | 11 | 55.0 | 99 | 10 | BF738532 | BF738532 |
| C 836 | 11 | 55.0 | 88 | 10 | BM052913 | BM052913 i667h09.y | C 909 | 11 | 55.0 | 99 | 12 | AZ927774 | AZ927774 |
| C 837 | 11 | 55.0 | 88 | 10 | R86649 | R86649 RABEST314T | C 910 | 11 | 55.0 | 99 | 12 | B35051 | B35051 |
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| C 840 | 11 | 55.0 | 89 | 9 | AI282029 | AI282029 q988d11.x | C 913 | 11 | 55.0 | 100 | 9 | AI893545 | AI893545 |
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| C 844 | 11 | 55.0 | 90 | 10 | BJ063687 | BJ063687 | C 917 | 11 | 55.0 | 100 | 9 | AA483244 | AA483244 |
| C 845 | 11 | 55.0 | 90 | 12 | AZ605220 | AZ605220 IM0426M22 | C 918 | 11 | 55.0 | 100 | 9 | AA450371 | AA450371 |
| C 846 | 11 | 55.0 | 90 | 12 | BH408816 | BH408816 100700980 | C 919 | 11 | 55.0 | 100 | 9 | BE171332 | BE171332 |
| C 847 | 11 | 55.0 | 90 | 12 | CNS03152 | CNS03152 | C 920 | 11 | 55.0 | 100 | 9 | AA500628 | AA500628 |
| C 848 | 11 | 55.0 | 90 | 12 | HSKC04A12 | HSKC04A12 | C 921 | 11 | 55.0 | 100 | 10 | BC381871 | BC381871 |
| C 849 | 11 | 55.0 | 91 | 9 | AA821417 | AA821417 H.sapiens D | C 922 | 11 | 55.0 | 100 | 10 | DA5732 | DA5732 |
| C 850 | 11 | 55.0 | 91 | 9 | AI376009 | AI376009 Tg57e09.x | C 923 | 11 | 55.0 | 100 | 10 | T81191 | T81191 |
| C 851 | 11 | 55.0 | 91 | 9 | AA519197 | AA519197 Tg57e233 | C 924 | 11 | 55.0 | 100 | 12 | HA2968120 | HA2968120 |
| C 852 | 11 | 55.0 | 91 | 10 | HA1566 | HA1566 yb1a01.s1 | C 925 | 11 | 55.0 | 100 | 12 | TA2968120 | TA2968120 |
| C 853 | 11 | 55.0 | 91 | 12 | AZ646945 | AZ646945 IM0513010 | C 926 | 10.8 | 54.0 | 19 | 12 | AZ671040 | AZ671040 |
| C 854 | 11 | 55.0 | 92 | 10 | AA402363 | AA402363 zT66g04.r | C 927 | 10.8 | 54.0 | 20 | 12 | AA591658 | AA591658 |
| C 855 | 11 | 55.0 | 92 | 10 | BI791730 | BI791730 lB76g11.y | C 928 | 10.8 | 54.0 | 25 | 10 | BM397444 | BM397444 |
| C 856 | 11 | 55.0 | 92 | 10 | BM488782 | BM488782 p9m2n.pk0 | C 929 | 10.8 | 54.0 | 27 | 10 | BM397444 | BM397444 |
| C 857 | 11 | 55.0 | 92 | 10 | BE324102 | BE324102 NF013G04P | C 930 | 10.8 | 54.0 | 28 | 12 | AZ782046 | AZ782046 |
| C 858 | 11 | 55.0 | 92 | 12 | AO911941 | AO911941 LMAJFV1.1 | C 931 | 10.8 | 54.0 | 28 | 12 | AZ797506 | AZ797506 |
| C 859 | 11 | 55.0 | 92 | 12 | AZ408521 | AZ408521 IM0179D16 | C 932 | 10.8 | 54.0 | 31 | 10 | BI038233 | BI038233 |
| C 860 | 11 | 55.0 | 93 | 9 | AA033252 | AA033252 m140a12.r | C 933 | 10.8 | 54.0 | 31 | 10 | R52745 | R52745 |
| C 861 | 11 | 55.0 | 93 | 9 | AA062606 | AA062606 zT68a10.s | C 934 | 10.8 | 54.0 | 34 | 12 | AZ589160 | AZ589160 |
| C 862 | 11 | 55.0 | 93 | 9 | AA661265 | AA661265 MB3D6V4.H0 | C 935 | 10.8 | 54.0 | 35 | 10 | BM397399 | BM397399 |
| C 863 | 11 | 55.0 | 93 | 9 | AI033196 | AI033196 cW94F04.S | C 936 | 10.8 | 54.0 | 36 | 10 | BI757558 | BI757558 |
| C 864 | 11 | 55.0 | 93 | 9 | AA502077 | AA502077 n972b07.s | C 937 | 10.8 | 54.0 | 41 | 10 | BI760663 | BI760663 |
| C 865 | 11 | 55.0 | 93 | 10 | BI152726 | BI152726 602918538 | C 938 | 10.8 | 54.0 | 42 | 10 | BI769932 | BI769932 |
| C 866 | 11 | 55.0 | 93 | 12 | AZ300980 | AZ300980 EP(3)3652 | C 939 | 10.8 | 54.0 | 43 | 9 | AI786454 | AI786454 |
| C 867 | 11 | 55.0 | 93 | 12 | AA592334 | AA592334 IM0403K07 | C 940 | 10.8 | 54.0 | 44 | 10 | BJ050185 | BJ050185 |
| C 868 | 11 | 55.0 | 94 | 9 | AA815356 | AA815356 a163q11.s | C 941 | 10.8 | 54.0 | 46 | 9 | AA012686 | AA012686 |
| C 869 | 11 | 55.0 | 94 | 9 | AA097599 | AA097599 mC09h10.r | C 942 | 10.8 | 54.0 | 46 | 9 | AA389458 | AA389458 |
| C 870 | 11 | 55.0 | 94 | 9 | AM182863 | AM182863 x164h03.x | C 943 | 10.8 | 54.0 | 46 | 9 | AA569383 | AA569383 |
| C 871 | 11 | 55.0 | 94 | 9 | AA494632 | AA494632 f609d11.r | C 944 | 10.8 | 54.0 | 50 | 9 | AU104240 | AU104240 |
| C 872 | 11 | 55.0 | 94 | 10 | R84512 | R84512 yq24h04.r1 | C 945 | 10.8 | 54.0 | 50 | 9 | AU105712 | AU105712 |
| C 873 | 11 | 55.0 | 94 | 10 | T68266 | T68266 yc40h04.r1 | C 946 | 10.8 | 54.0 | 50 | 9 | AU105713 | AU105713 |
| C 874 | 11 | 55.0 | 94 | 10 | AZ760016 | AZ760016 IM053E21 | C 947 | 10.8 | 54.0 | 50 | 9 | AU105714 | AU105714 |
| C 875 | 11 | 55.0 | 94 | 12 | AZ778982 | AZ778982 2M0014A15 | C 948 | 10.8 | 54.0 | 50 | 9 | AU105716 | AU105716 |
| C 876 | 11 | 55.0 | 94 | 12 | BH217021 | BH217021 100604950 | C 949 | 10.8 | 54.0 | 50 | 9 | AU105717 | AU105717 |
| C 877 | 11 | 55.0 | 95 | 9 | AI955060 | AI955060 w460c05.x | C 950 | 10.8 | 54.0 | 50 | 9 | AU105719 | AU105719 |
| C 878 | 11 | 55.0 | 95 | 9 | AA275158 | AA275158 vC02d01.r | C 951 | 10.8 | 54.0 | 50 | 9 | AU105720 | AU105720 |
| C 879 | 11 | 55.0 | 95 | 10 | DA2849 | DA2849 D42849 R1c0e | C 952 | 10.8 | 54.0 | 50 | 9 | AU105721 | AU105721 |
| C 880 | 11 | 55.0 | 95 | 10 | NA6122 | NA6122 yv60h03.r1 | C 953 | 10.8 | 54.0 | 50 | 9 | AU107158 | AU107158 |
| C 881 | 11 | 55.0 | 95 | 10 | NA6882 | NA6882 Tg57e2339c1 | C 954 | 10.8 | 54.0 | 50 | 9 | AU107159 | AU107159 |
| C 882 | 11 | 55.0 | 95 | 12 | AA282066 | AA282066 1006023A1 | C 955 | 10.8 | 54.0 | 50 | 9 | AU107160 | AU107160 |
| C 883 | 11 | 55.0 | 95 | 12 | AA282066 | AA282066 1006023A1 | C 956 | 10.8 | 54.0 | 50 | 9 | AU107396 | AU107396 |
| C 884 | 11 | 55.0 | 96 | 9 | AA208323 | AA208323 mV84b09.r | C 957 | 10.8 | 54.0 | 52 | 10 | BI767322 | BI767322 |
| C 885 | 11 | 55.0 | 96 | 10 | BE497577 | BE497577 WHE0754.F | C 958 | 10.8 | 54.0 | 53 | 12 | AZ597536 | AZ597536 |
| C 886 | 11 | 55.0 | 96 | 12 | AZ421217 | AZ421217 IM0199F19 | C 959 | 10.8 | 54.0 | 53 | 12 | AZ810048 | AZ810048 |
| C 887 | 11 | 55.0 | 96 | 12 | AZ919983 | AZ919983 1006017E0 | C 960 | 10.8 | 54.0 | 54 | 12 | AZ960332 | AZ960332 |
| C 888 | 11 | 55.0 | 97 | 9 | AA856913 | AA856913 cH93f04.s | C 961 | 10.8 | 54.0 | 55 | 9 | AA767563 | AA767563 |
| C 889 | 11 | 55.0 | 97 | 9 | AI902991 | AI902991 QV-BT020- | C 962 | 10.8 | 54.0 | 55 | 9 | AA612987 | AA612987 |
| C 890 | 11 | 55.0 | 97 | 9 | AA229197 | AA229197 nC45a09.s | C 963 | 10.8 | 54.0 | 55 | 9 | AA622880 | AA622880 |
| C 891 | 11 | 55.0 | 97 | 10 | BG486368 | BG486368 dc98h07.y | C 964 | 10.8 | 54.0 | 56 | 10 | H86342 | H86342 |
| C 892 | 11 | 55.0 | 97 | 10 | BI881470 | BI881470 fm93a10.y | C 965 | 10.8 | 54.0 | 58 | 10 | H67127 | H67127 |
| C 893 | 11 | 55.0 | 97 | 10 | BI881470 | BI881470 fm93a10.y | C 966 | 10.8 | 54.0 | 58 | 12 | AZ423342 | AZ423342 |

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| 967 | 10.8 | 54.0 | 58 | 12 | AZ537087 | AZ537087 | AST-2P017 |
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| C 969 | 10.8 | 54.0 | 60 | 10 | W66740 | W66740 | me14e09.r1 |
| C 970 | 10.8 | 54.0 | 60 | 10 | BE507734 | BE507734 | dc22a12.y |
| C 971 | 10.8 | 54.0 | 60 | 10 | BF638269 | BF638269 | NFO04A12P |
| 972 | 10.8 | 54.0 | 63 | 9 | AA995928 | AA995928 | cu93h03.s |
| 973 | 10.8 | 54.0 | 66 | 10 | F35072 | F35072 | HSPD30706.H |
| C 974 | 10.8 | 54.0 | 66 | 12 | AZ350948 | AZ350948 | IM0088A16 |
| C 975 | 10.8 | 54.0 | 68 | 10 | AA671151 | AA671151 | vn88C11.r |
| 976 | 10.8 | 54.0 | 68 | 10 | BJ059063 | BJ059063 | BJ059063 |
| 977 | 10.8 | 54.0 | 68 | 12 | AZ588383 | AZ588383 | IM0396K09 |
| C 978 | 10.8 | 54.0 | 70 | 9 | AI196222 | AI196222 | u170e01.y |
| C 979 | 10.8 | 54.0 | 70 | 9 | AA178031 | AA178031 | mt06h06.r |
| C 980 | 10.8 | 54.0 | 71 | 10 | T71872 | T71872 | yc64q11.s1 |
| C 981 | 10.8 | 54.0 | 71 | 12 | AZ584290 | AZ584290 | IM0388O08 |
| 982 | 10.8 | 54.0 | 71 | 12 | AZ621780 | AZ621780 | IM0455J03 |
| 983 | 10.8 | 54.0 | 71 | 12 | AZ872341 | AZ872341 | 2M0185F07 |
| 984 | 10.8 | 54.0 | 72 | 12 | AZ308283 | AZ308283 | IM0011C09 |
| 985 | 10.8 | 54.0 | 73 | 9 | AA064537 | AA064537 | m136h11.r |
| 986 | 10.8 | 54.0 | 73 | 9 | A1326369 | A1326369 | mm11d07.x |
| 987 | 10.8 | 54.0 | 73 | 10 | BJ057787 | BJ057787 | BJ057787 |
| C 988 | 10.8 | 54.0 | 73 | 12 | AF149529 | AF149529 | AF149529 |
| C 989 | 10.8 | 54.0 | 74 | 10 | R97554 | R97554 | yg56h10.s1 |
| C 990 | 10.8 | 54.0 | 74 | 12 | BH017636 | BH017636 | IMAGFV1.1 |
| 991 | 10.8 | 54.0 | 75 | 10 | T59628 | T59628 | yc13a06.s1 |
| 992 | 10.8 | 54.0 | 76 | 9 | AA872958 | AA872958 | oh63g02.s1 |
| 993 | 10.8 | 54.0 | 76 | 9 | A1003107 | A1003107 | an27e12.s |
| 994 | 10.8 | 54.0 | 76 | 10 | BG554398 | BG554398 | dab72h08. |
| 995 | 10.8 | 54.0 | 76 | 10 | BJ057764 | BJ057764 | BJ057764 |
| C 996 | 10.8 | 54.0 | 77 | 12 | AZ778425 | AZ778425 | 2M0013J09 |
| C 997 | 10.8 | 54.0 | 77 | 12 | AZ971099 | AZ971099 | 2M024A03 |
| 998 | 10.8 | 54.0 | 77 | 12 | BH214296 | BH214296 | SAK_0105 |
| 999 | 10.8 | 54.0 | 78 | 12 | AZ395244 | AZ395244 | IM0159B19 |
| 1000 | 10.8 | 54.0 | 79 | 9 | AI267723 | AI267723 | ap62a02.x |

ALIGNMENTS

RESULT 1
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LOCUS 2M027811F Mouse 10kb plasmid U0GC2M library Mus musculus genomic
DEFINITION
AZ993299
ACCESSION
AZ993299
VERSION
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 62)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
'M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0278 row: 1 column: 14
Seq primer: CGTGTAAACGACGCCACGT
Class: plasmid ends
High quality sequence stop: 62.
Location/Qualifiers

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

FEATURES

source

1. 62
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U0GC2M0278114"
/clone_lib="Mouse 10kb plasmid U0GC2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g114732114/gb1AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT
ORIGIN
1 a 31 c 18 g 12 t

Query Match 77.0%; Score 15.4; DB 12; Length 62;
Best Local Similarity 94.1%; Pred. No. 1.1e+04;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 agccagagctggagagg 20
|||||
Db 60 AGCCAGAGCTGACAGG 44

RESULT 2
AZ826329
LOCUS 2M0102B01F Mouse 10kb plasmid U0GC1M library Mus musculus genomic
DEFINITION
AZ826329
ACCESSION
AZ826329
VERSION
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 62)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
'M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0102 row: B column: 01
Seq primer: CGTGTAAACGACGCCACGT
Class: plasmid ends
High quality sequence stop: 62.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

FEATURES

FEATURES
source
Location/Qualifiers
1. 62
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUC2M0102B01"
/clone_lib="Mouse 10kb plasmid UUC2M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMD42nv: Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gll4732114|gplap129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
23 a 7 c 20 g 12 t

ORIGIN

Query Match
Best Local Similarity 74.0%; Score 14.8; DB 12; Length 62;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ggaagcagagctggaga 18
|||||

Db 7 GAAGCAGAGCTGGAGA 24

RESULT 3
D20583 90 bp mRNA linear EST 30-JUL-1996
LOCUS HUMG501558 Human promyelocyte Homo sapiens cDNA clone pm2904 3',
DEFINITION mRNA sequence.
ACCESSION D20583
VERSION D20583.1 GI:501679
KEYWORDS EST.
SOURCE Homo sapiens human.
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 90)
Okubo,K., Fukushima,A., Yoshii,T., Niiyama,T., Kojima,Y., Yoshinari,H., Arimoto,J. and Matsubara,K.
Gene expression of human promyelocytic cell line HL60 before and after induction of differentiation. A new application of 3'directed cDNA sequencing
JOURNAL Unpublished (1993)
COMMENT Contact: Okubo,K., Fukushima,A., Yoshii,T., Niiyama,T., Kojima,Y., Yoshinari,H., Arimoto,J. and Matsubara,K.
Institute for Molecular and Cellular Biology
Osaka University
3-1 Yamada-oka,Suita,Osaka 565,Japan.
Location/Qualifiers
1. 90
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="pm2904"
/clone_lib="Human promyelocyte"
/note="Female, adult, cell_line = HL60, cell_type = promyelocyte."

BASE COUNT
17 a 18 c 17 g 38 t

ORIGIN

Query Match
Best Local Similarity 74.0%; Score 14.8; DB 10; Length 90;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 aagccagagctggag 20
|||||

Db 30 AAGCAGAGTGGAGG 13

RESULT 4
B1649165 87 bp mRNA linear EST 12-SEP-2001
LOCUS B1649165/c
DEFINITION B1649165
B603278969F1 NIH_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5319257 5',
mrna sequence.
ACCESSION B1649165
VERSION B1649165
KEYWORDS B1649165.1 GI:15563401
SOURCE EST.
ORGANISM house mouse.
Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 87)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Chu-Xia Deng Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Plate: LLNL1809 row: 1 column: 18
High quality sequence stop: 87.
Location/Qualifiers
1. 87
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/db_xref="taxon:10090"
/clone="IMAGE:5319257"
/clone_lib="NIH_CGAP_Mam3"
/tissue_type="tumor, gross tissue"
/lab_host="DH10B"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site:1; NotI; Site:2; SalI; Cloned unidirectionally. Primer: oligo dT.
Average insert 2 kb. Library constructed by Life Technologies, catalog #12017-018. Investigators providing samples: Lothar Hennighausen/Chu-Xia Deng, NIH Reference for transgenic model: Xu et al., Nature Genetics 22, 37-43 (1999). Note: this is a NCI_CGAP Library."

BASE COUNT
7 a 38 c 26 g 16 t

ORIGIN

Query Match
Best Local Similarity 72.0%; Score 14.4; DB 10; Length 87;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 gaagccagagctggag 17
|||||

Db 20 GCAGCCAGAGCTGGAG 5

RESULT 5
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LOCUS AM246896
DEFINITION B603278969F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822429 5',
mrna sequence.

ACCESSION AW246896
 VERSION AW246896.1 GI:6589689
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE 1 (bases 1 to 88)
 AUTHORS NIH-MGC <http://mgc.ncl.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Other ESTs: 2822429, 3p1me
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: DCTD/DRP CDNA Library Preparation: Ling
 Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E.
 Consortium (LLNL) DNA Sequencing by: Berkeley MGC sequencing
 project Clone distribution: MGC clone distribution information can
 be found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.lnl.gov/btrp/image/image.html Base Calling / Quality
 Scores: PHRED from University of Washington Genome Center. Vector
 Trimming: cross_match from University of Washington Genome Center
 PHRAP suite. Poly-T Identification: patmatch.pl from Berkeley
 Drosophila Genome Project. University of Washington Genome Center:
<http://www.genome.washington.edu> Low Quality Sequence: 82
 contiguous PHRED high quality bases following vector sequence. Very
 low Quality Sequence: Trace file contained 88 contiguous distinct
 peaks following vector sequence.
 Plate: LCM9 row: 6 column: 6
 High quality sequence stop: 82.
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 /cell_line="MGC3"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: Lung; Vector: pORF7; Site:1; XhoI; Site:2;
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 cloned into EcoRI/XhoI sites using the following 5'
 adaptor: GGCACGAG(G). Size-selected >500bp for average
 insert size 1.8kb. Library constructed by Ling Hong in
 the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."
 BASE COUNT 26 a 23 c 26 g 11 t 2 others
 ORIGIN
 Query Match 72.0%; Score 14.4; DB 9; Length 88;
 Best Local Similarity 93.8%; Pred. No. 2.9e+04;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 gaagccagagctcgag 17
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 Db 60 GAAGCCAGAGCTAGAG 75
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 LOCUS 2M0016021F Mouse 10kb plasmid UUC1M library Mus musculus genomic
 DEFINITION clone UUCG2M0016021 F, DNA sequence.
 ACCESSION A2779710
 VERSION A2779710.1 GI:12910641
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 94)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
 and Wright, D., Weiss, R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0016 row: 0 column: 21
 Seq primer: CGTGTAAACGACGCGCAGT
 Class: Plasmid ends
 High quality sequence stop: 94.
 Location/Qualifiers
 1..94
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 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="UUCG2M0016021"
 /clone_lib="Mouse 10kb plasmid UUCG1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnares/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (p14732114|gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."
 BASE COUNT 17 a 29 c 22 g 26 t
 ORIGIN
 Query Match 72.0%; Score 14.4; DB 12; Length 94;
 Best Local Similarity 93.8%; Pred. No. 3e+04;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 4 agccagagctcgagag 19
 |||||||
 Db 22 AGCCAGAGCTGAAGAG 7
 RESULT 7
 BG965389/c 98 bp mRNA linear EST 12-JUN-2001
 LOCUS 602830425F1 NCI_CGAP_C024 Mus musculus CDNA clone IMAGE:4984975 5',
 DEFINITION mRNA sequence.
 ACCESSION BG965389
 VERSION BG965389.1 GI:14353026
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

Db 69 GAAGAAAGAGCTTGAGAGG 51

RESULT 10
LOCUS A2779030
DEFINITION 2M001422R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0014A21 R, DNA sequence.
ACCESSION A2779030
VERSION A2779030.1 GI:12909273
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 89)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausen, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10Kb
plasmid inserts
Unpublished (2000)
CONTACT: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
84132, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0014 row: A column: 21
Seq primer: CACACGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 89.
Location/Qualifiers
1. 89
/organism="Mus musculus"
/strain="C57Bl/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0014A21"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57Bl/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g11473211419b|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 45 a 17 c 16 g 11 t

ORIGIN

Query Match 71.0%; Score 14.2; DB 12; Length 89;
Best Local Similarity 84.2%; Pred. No. 3.5e+04;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ggaagccagagcttgagag 19

Db 26 GGAAGCCAGAGCTATACAG 44

RESULT 11
LOCUS A1554088/c
DEFINITION te49h10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
IMAGE:2090083 3', mRNA sequence.
ACCESSION A1554088
VERSION A1554088.1 GI:4486451
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 92)
NCI-CCAP http://www.ncbi.nlm.nih.gov/nciccap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
CONTACT: Robert Strausberg, Ph.D.
Email: c9apbs@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 515 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 86.
Location/Qualifiers
1. 92
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2090083"
/clone_lib="Soares_NFL_T_GBC_S1"
/lab_host="DH10B"
/note="organ: pooled; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site:1: Not I; Site:2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NDHL19W, testis NHT, and B-cell
NCI-GAP-GCB1) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo."

BASE COUNT 26 a 18 c 15 g 33 t

ORIGIN

Query Match 71.0%; Score 14.2; DB 9; Length 92;
Best Local Similarity 84.2%; Pred. No. 3.6e+04;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ggaagccagagcttgagag 19

Db 35 GAAACCAAGAGCTGAGAG 17

RESULT 12
LOCUS AA912855
DEFINITION O132d01.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
IMAGE:1525153 3' similar to SW-OLFL HUMAN O13606 OLFACTORY
RECEPTOR-LIKE PROTEIN OLFL. ;, mRNA sequence.
ACCESSION AA912855
VERSION AA912855.1 GI:3052247
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 34)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps-remail.nih.gov
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (infoimage.llnl.gov) for further information.
 Trace considered overall poor quality
 Insert length: 496 Std Error: 0.00
 Seq primer: -40m13 fwd. ET from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers
 1..34
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_image="1525153"
 /clone_lib="Soares_NFL_T_GBC_S1"
 /lab_host="DH10B"
 /note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with
 a modified polylinker; Site 1: Not I; Site 2: Eco RI;
 Equal amounts of plasmid DNA from three normalized
 libraries (fetal lung NDHL19W, testis NHT, and B-cell
 NCI-CGAP_GCB1) were mixed, and ss circles were made in
 vitro. Following HAP purification, this DNA was used as
 tracer in a subtractive hybridization reaction. The driver
 was PCR-amplified cDNAs from pools of 5,000 clones made
 from the same 3 libraries. The pools consisted of
 I.M.A.G.E. clones 297480-302087, 682632-687239,
 726408-728711, and 729096-731399. Subtraction by Bento
 Soares and M. Fatima Bonaldo."
 BASE COUNT 4 a 10 c 12 g 8 t
 ORIGIN

Query Match 69.0%; Score 13.8; DB 9; Length 34;
 Best Local Similarity 88.2%; Pred. No. 4.1e+04;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ggaagccagagctggag 17
 ||||| |||||
 Db 18 GGAAGCCTCAGCTGGAG 34

RESULT 13
 AZ425152/c 61 bp DNA linear GSS 03-OCT-2000
 LOCUS
 DEFINITION IM0205A08F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 ACCESSION UUGC1M0205A08 F, DNA sequence.
 AZ425152
 VERSION AZ425152.1 GI:10549165
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 61)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
 ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
 and Wright,D.,Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 COMMENT University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert length: 10000 Std Error: 0.00
 Plate: 0205 row: A column: 08
 Seq primer: CGTGTAAACGACGGCCAGT
 Class: plasmid ends
 High quality sequence stop: 61.
 Location/Qualifiers
 1..61
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="UUGC1M0205A08"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv: Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnares/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adapted DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (g114732114[9b]AF129072.1) a copy-number
 inducible derivative of plasmid RL. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adapted mouse DNA was annealed to
 adapted vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."
 BASE COUNT 12 a 15 c 15 g 19 t
 ORIGIN

Query Match 69.0%; Score 13.8; DB 12; Length 61;
 Best Local Similarity 88.2%; Pred. No. 4.7e+04;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 agccagagctggagagg 20
 ||||| |||||
 Db 27 AGCCAGGCGCTGAGCTGG 11

RESULT 14
 BE291630/c 80 bp mRNA linear EST 13-JUL-2000
 LOCUS
 DEFINITION 601085429F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:3499494 5',
 mRNA sequence.
 ACCESSION BE291630
 VERSION BE291630.1 GI:9173483
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 80)
 NIH-MGC <http://mgc.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 JOURNAL Contact: Robert Strausberg, Ph.D.
 COMMENT Email: cgaps-remail.nih.gov
 Tissue Procurement: Jeffrey Green M.D.
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: L1AM8556 row: j column: 07
 High quality sequence stop: 80.

FEATURES

Location/Qualifiers

1. 80
 /organism="Mus musculus"
 /strain="FVB/N"
 /db.xref="taxon:10090"
 /clone="IMAGE:1499494"
 /clone_lib="NCI-CGP_Mam6"
 /sex="female, virgin"
 /tissue_type="infiltrating ductal carcinoma"
 /dev_stage="5 months"
 /lab_host="DH10B"
 /note="Organ: mammary; Vector: PCWV-SPORT6; Site_1: Salt; Site_2: NCI; Cloned unidirectionally. Primer: Oligo dt. Library constructed by life technologies. Investigator providing samples: Jeffrey Green, M.D., NIH"

BASE COUNT

26 a 15 c 18 g 21 t

ORIGIN

Query Match

Best Local Similarity 69.0%; Score 13.8; DB 10; Length 80;
 Best Local Similarity 88.2%; Pred. No. 5e+04;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ggaagccagagctggag 17

Db 37 GGTAGCCACGCTGGAG 21

RESULT 15

AA500452

LOCUS

DEFINITION

AA500452 83 bp mRNA linear EST 01-JUL-1997
 vi81f06.r1 Stratagene mouse skin (#937313) Mus musculus cDNA clone
 IMAGE:918659 5', mRNA sequence.

ACCESSION

AA500452

VERSION

AA500452.1 GI:2235419

KEYWORDS

EST.

SOURCE

house mouse.

ORGANISM

Mus musculus

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

AUTHORS

Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisler,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterston,R.

The WashU-HMI Mouse EST Project
 Unpublished (1996)
 Contact: Marra M/Mouse EST Project

WashU-HMI Mouse EST Project
 Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@watson.wustl.edu

This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.

GI:530875

Seq primer: -28m13 rev1 ET from Amersham.

FEATURES

Location/Qualifiers

1. 83

/organism="Mus musculus"

/strain="C57BL/6"

/db.xref="taxon:10090"

/clone="IMAGE:918659"

/clone_lib="Stratagene mouse skin (#937313)"

/sex="females"

/tissue_type="whole skin"

/dev_stage="11 weeks old"

/lab_host="SOLR (kanamycin resistant)"

/note="Organ: skin; Vector: pBluescript SK-; Site_1: EcoRI
 ; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo
 dt. Whole skin from 11 week old C57BL/6 female mice.

Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5'
 adaptor sequence: 5' GAATTCGCGACGAG 3' -3' adaptor
 sequence: 5' CTCGAGTTTCTTTTCTTTTCTTTT 3'

BASE COUNT 34 a 9 c 32 g 8 t

ORIGIN

Query Match 69.0%; Score 13.8; DB 9; Length 83;
 Best Local Similarity 88.2%; Pred. No. 5e+04;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 aagccagagctggag 19

Db 11 AAGGAAGACTGGAGAG 27

Search completed: July 19, 2002, 02:11:48
 Job time: 6529 sec

Fri Jul 19 08:31:28 2002

us-09-817-538-18.rst

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